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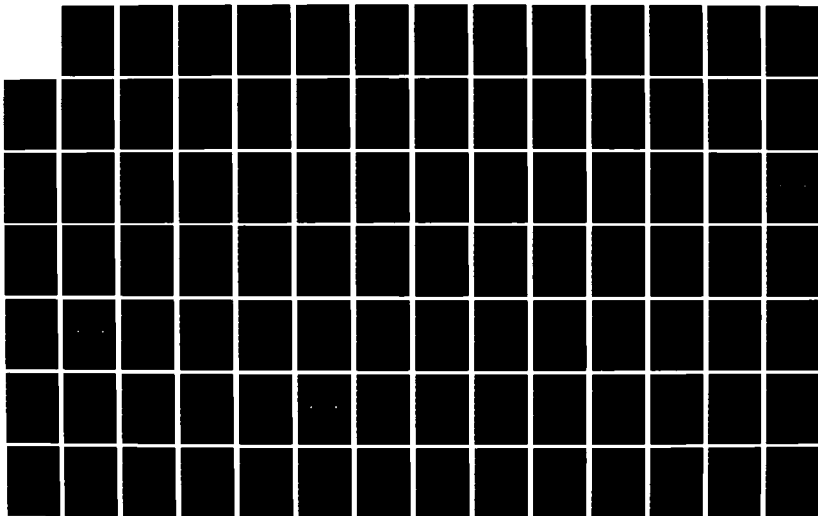
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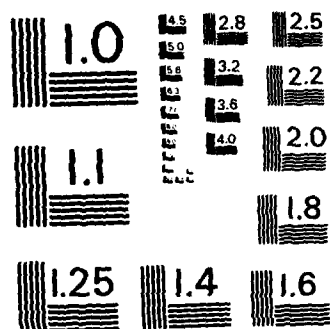
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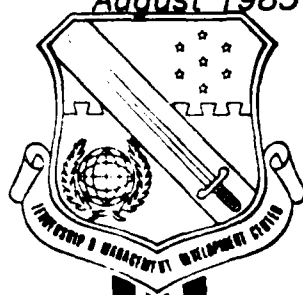


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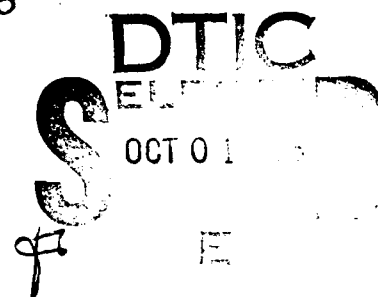
**USAF FAMILY SURVEY:
A REVISION OF THE USAF
SPOUSE SURVEY**

MAJOR PATRICIA A. FLANNERY, USAF
MAJOR MICKEY R. DANSBY, USAF

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AUGUST 1985



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This report was adapted from Air Command and Staff College Research Report 85-0825 entitled USAF Family Survey (AFFS) Revision (u) by Major Patricia A. Flannery, USAF.

LMDC-TR-85-3 has been reviewed and is approved for publication.

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Analysis

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Commander

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EXECUTIVE SUMMARY

REPORT NUMBER LMDC-TR-85-3

AUTHORS MAJOR PATRICIA H. FLANNERY, USAF
 MAJOR MICKEY R. DANSBY, USAF

TITLE USAF FAMILY SURVEY: A REVISION OF THE USAF
 SPOUSE SURVEY

I. Purpose: To assist the Leadership and Management Development Center (LMDC) in revising the U.S. Air Force Spouse Survey (AFSS) to improve its technical and statistical properties, and to broaden its usefulness for theoretical, research, and practical applications.

II. Background: During the next 20 years the pool of available 18-year-olds from which the Air Force recruits is expected to decrease dramatically. By the year 2000 the Air Force will have to recruit twice the 1975 proportion of available 18-year olds just to maintain the force at current levels. In view of these changes in the work force, recruiting and retention issues are becoming more important to the Air Force. Family patterns in the Air Force are rapidly changing. Air Force leaders are increasingly aware of these changes and are concerned about the impact these trends will have on retention and readiness. LMDC developed the AFSS to measure spousal attitudes and other factors important to retention. Officials at LMDC recognized the need for improving the AFSS. Research was conducted and several variables were added to the survey, which was renamed the USAF Family Survey (AFFS). With any survey revision, it is necessary to pretest and refine the instrument, and LMDC sponsored the present research for that purpose.

III. Procedure & Results: Several tasks were undertaken to reach the goals of the present research:

(1) A review of the current literature was conducted to establish the relative importance of factors in the AFFS vis-a-vis the link between work and family factors in the Air Force.

(2) The experimental survey was given to 22 officers' spouses and 22 enlisted members' spouses. After taking the pretest, participants were interviewed and were encouraged to make comments and recommend changes concerning clarity and understandability of the questions. All comments were then categorized and recorded.

(3) All comments made by the participants were carefully and independently evaluated and, as a result of the pretest, several items on the experimental version of the AFFS were revised.

(4) Summary and inferential statistics were used to analyze the survey results. The survey results were analyzed in four categories: frequencies of item responses, tests of the item means between officer and enlisted spouses, correlations (tendency to vary together in some systematic manner) between items, and groupings of similar items.

IV. Conclusions: Family patterns in the United States are changing and Air Force policies and programs must change with the times if the Air Force expects to stay competitive in the job market. The Air Force must find ways to assess its people's needs and to respond to those needs. The AFFS can assist Air Force leadership in measuring spousal attitudes. Major factors considered important in assessing the link between work and family factors have been incorporated into the revised AFFS. The survey now contains 140 items and would appear to tap items of major interest to the Air Force and items most closely linked to retention and job satisfaction issues. Although any survey can be improved, this revision appears to be a significant improvement over the original version.

V. Recommendations:

(1) The pretest sample was chosen on the basis of convenience to pretest wording, etc., of the survey, and is considered adequate for this purpose. Since the sample used to pretest the AFFS was not chosen to be representative of the Air Force, caution should be used in interpreting statistical results. Also, the sample size was rather small (44) and therefore numerical results may be skewed. However, the data analyses revealed several trends which may warrant further investigation. For example, a spouse's attitude toward, and commitment to, the military lifestyle is the factor most often suggested as a family influence on the military member's job. Further, these attitudes seem to affect career intentions. Enlisted spouses in the sample indicated that they felt more involved with the Air Force lifestyle but also that they felt more stress and disruption from the Air Force lifestyle. Further studies should be conducted to determine if this is an Air Force-wide trend.

(2) In order to further measure the reliability of the revised AFFS, it should be administered to a large group of spouses. Responses should be factor-analyzed and the survey revised as necessary.

(3) In the future, revisions of the AFFS should be handled on an ongoing basis. If future studies reveal additional family issues or variables which are related to work variables, they should be incorporated into the survey.

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Chapter One

INTRODUCTION

During the next 20 years the pool of available 18-year-olds from which the Air Force recruits is expected to decrease dramatically. By the year 2000 the Air Force will have to recruit twice the 1975 proportion of available 18-year olds just to maintain the force at current levels (Korb, 1984). In view of these changes in the work force, recruiting and retention issues are becoming more important to the Air Force.

The relationship between family factors and retention is becoming increasingly well known. Lt. General Edgar A. Chavannie, USAF, Deputy Assistant Secretary of Defense for Military Personnel and Force Management, in Congressional testimony in early 1984 claimed, "It is clear that improvements to our quality of life during the past three years have materially improved our recruitment and retention rates. This has, in turn, improved our readiness and overall national defense posture. Well trained and motivated people are our most valuable defense resource."

In recent years, the relationship between the military and the family has been the subject of several studies. Although Air Force leaders gradually came to realize there is a link between family factors and job factors, they did not have a clear understanding of the relationship between these factors, exactly how they affect recruiting and retention, or a way of measuring the influence of spouses' attitudes toward the military lifestyle.

In order to assess spousal attitudes and how these attitudes affect recruiting and retention, the Air Force Leadership and Management Development Center (LMDC) at Maxwell AFB, Alabama, developed the U.S. Air Force Spouse Survey (AFSS, Appendix A; Ibsen & Austin, 1983). Although the survey has proven to be an effective instrument, officials at LMDC recognized the need for improving it. Dansby (1984) identified several important family variables which were either not measured, or not measured adequately, and proposed appropriate changes. The survey was revised to incorporate these recommendations (Appendix B). As with any survey revision, it is now necessary to pretest and refine the instrument (Babbie, 1973).

The purpose of this research is to assist LMDC in revising the U.S. Air Force Family Survey (AFFS) to improve

its technical and statistical properties, and to broaden its usefulness for theoretical, research, and practical applications. This research has four goals:

(1) To conduct a review of the current literature to establish the relative importance of factors in the AFFS vis-a-vis the link between work and family factors in the Air Force;

(2) To pretest the revised AFFS, interview each participant and evaluate and summarize their comments;

(3) To assist LMDC in further revising the survey based on the results of the pretest or other survey considerations;

(4) To analyze the results of the pretest by the use of summary and inferential statistics.

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Chapter Two

LITERATURE REVIEW

In recent years there has been a shift in the United States toward sex-role equality and flexibility with corresponding changes in the structure of the American family. These changes are reflected by a shift from the traditional family (which consists of a working husband, a wife not employed outside the home, and one or more children) to the egalitarian family (where both husband and wife are employed outside the home) (Beeson, 1984).

Although the military has been slower to feel these changes, the family pattern in the Air Force appears to be moving from the traditional toward egalitarian as well (Beeson, 1984; Black, 1982; Bowen, 1984; Landrum, 1982; Orthner, 1980; Orthner & Bowen, 1982; Orthner & Pittman, 1983; Vaughn, 1984). Orthner (1980) defines a traditional family as one in which the husband is the primary wage earner while the wife is primarily considered responsible for the home and children. Nontraditional families are defined as being characterized by a rejection of traditional separation of family duties and a greater belief in the

sharing of family responsibilities. Orthner (1980) found that 28% of Air Force couples are nontraditional in their sex-role preferences while another 40% are transitional; that is, either the husband or wife is nontraditional but not both.

Several studies (Bowen, 1984; Orthner, 1980; Orthner & Bowen, 1982) found that in fewer than one-third of Air Force marriages both husband and wife are traditional in their sex-role preferences. Orthner (1980) concluded that spouse support is very important to a member's retention decision and that traditional wives are more likely to support their husbands' careers (81% in favor) than are nontraditional wives (73% in favor). Conversely, however, nontraditional husbands of Air Force members are more likely to support their wives' careers (64%) than are traditional husbands (47%). These studies further suggest that Air Force men are increasingly supportive of their wives' working and that many believe that their wives should have more opportunity for personal growth and development. Currently more than half of the civilian wives of Air Force members are employed outside the home; of these, over two-thirds have full-time jobs. With the trend in the Air Force toward egalitarian families the perceived role of the Air Force wife is also changing (Hunter, 1982; Kohen, 1984; Landrum, 1982;

Stoddard, 1978). Military wives have traditionally been expected to place their husbands' needs and careers above their own. They have tended to "share" their husbands' occupations to a greater extent than do civilian wives. Military wives maintain the family, create its social network, and, ironically, are expected to assume full responsibility for the stereotypic masculine roles when the husbands are away. However, it appears that military wives' perceptions of their roles are changing. Warner (1984), in a survey of 242 spouses of the students and faculty members of the Senior Noncommissioned Officer Academy, Squadron Officer School, Air Command and Staff College, and Air War College at Maxwell Air Force Base, found that most wives felt they could follow and support their husbands and still work outside the home. More than 85% said that their jobs are just as important as their husbands' jobs. Over 87% felt that their roles are changing and more than 60% of the wives believed that they should not be forced to participate in Air Force activities.

Probably the most important trend in family patterns is the tendency for family members to place family values above their careers. Numerous studies (Douvan, Veroff & Fulka, 1979; Skolnick, 1981) indicate this trend in American society and a survey of 367 Air Command and Staff College

students (Daskevich & Nafzinger, 1980) found that a stable family life was an important factor in influencing members' career intentions. The same survey also found that a majority of officers felt that spousal influence was very important to their career decisions. Although those surveyed were wives of predominately upwardly mobile, career oriented officers with between ten and fifteen years already invested in the service, Daskevich and Nafzinger's findings may be a forerunner of the attitudes that will eventually be found in all ranks and seniority levels. Their findings are supported by the Air Force Quality of Life (QOL) Survey (1983) which found that 78% of the married members reported agreement between the member and the spouse as to the member's career plans. This is 5% higher than the 1980 QOL Survey which reported 73% agreement between the member and the spouse.

According to the Air Force Conference on Families (1980) the family and spouse have an important influence on the career decisions of Air Force members. A recent Navy study (Szoc, 1982) of 1,417 officer and enlisted personnel found that the top two variables that directly affect retention were the opinion of the spouse and satisfaction with family life in the Navy. Between 80%-90% of all respondents stated that their spouses' opinions were very

important to their career intentions. Other factors that were considered important were overall time spent with the family and family separations due to deployments. This finding supports studies by Lund (1978), who found that over 60% of the Army officers queried indicated that their wives' attitudes influenced their career decisions, and Grace and Steiner (1978), who concluded that wives' attitudes are important factors in influencing the retention of Navy enlisted personnel. In another study, Orthner and Pittman (1984) concluded that members who believe that their children and their spouses are adjusting well to the Air Force are much more likely to indicate a desire to stay in the service and are more likely to report that their job morale and performance are high.

Among Air Force members, spouse support is strongly linked to career intentions. For instance, Orthner (1980) found that 70% of the men and 76% of the women who plan to make the Air Force a career have spouses who support those decisions while only 14% of the men and 27% of the women who do not plan on making the Air Force a career have spouses who support their making it a career. Orthner (1980) also found that there are several major factors which are linked to spousal support for Air Force careers: amount of member's income, length of work week and extra-duty time,

strength of the spouse's tie to the Air Force community, and satisfaction with the marriage.

Thus far in our review of the literature we have seen that family patterns in the Air Force are rapidly changing. Air Force leaders are increasingly aware of these changes and are concerned about the impact these trends will have on readiness. As Black (1982) concluded, these trends require the Air Force to focus on family needs in order to maintain an effective, combat ready force.

The Leadership and Management Development Center has developed the AFSS to measure spousal attitudes and other factors important to retention. This instrument must be revised to improve its effectiveness. The next chapter discusses the procedures and methods used to improve and refine the AFSS.

Chapter Three

PROCEDURES AND ANALYSIS

Survey Instrument

The original Spouse Survey (Appendix A) was developed by the Air Force Leadership and Management Development Center (LMDC) in 1982. Upon recommendation for a revision of the survey (Dansby, 1984) LMDC refined the survey in an experimental version (Appendix B), and renamed the instrument the USAF Family Survey (AFFS) to reflect the inclusion of additional family issues on the new version. The experimental version consists of 140 attitudinal and demographic items which include numerous military-family issues, such as base services, traditional versus egalitarian family patterns, family integration into the military community, family disruptions caused by the job, spousal autonomy, family cohesion, family patterns of external social interaction and the effects of the Air Force on the family, as well as factors related to the member's plans regarding making the Air Force a career.

Group Interviewed

The survey pretest group consisted of 44 spouses (all female) of Air War College faculty and students, Air Command and Staff College students, Squadron Officer School students, and enlisted members stationed at Maxwell AFB and Gunter AFB. Subjects were equally divided between officer and enlisted spouses. The grade distribution of the Air Force members is shown in Table 1.

Table 1
Grade Distribution

Grade	Frequency	Percent
E3	1	2.3
E4	2	4.5
E5	4	9.1
E6	3	6.8
E7	4	9.1
E8	3	6.8
E9	5	11.4
O1	1	2.3
O2	4	9.1
O3	8	18.2
O4	4	9.1
O5	1	2.3
O6	4	9.1
TOTAL	44	100.0

Survey Administration

The experimental survey was given to spouses of Air Force members at the Family Support Center Maxwell AFB, Alabama, the NCO Club, Squadron Officer School (SOS), Air Command and Staff College (ACSC) and individually. Spouses were briefed prior to taking the pretest about the purpose of the survey, and were encouraged to make written comments in their booklets and to recommend changes. Participants were then interviewed and spouses were again encouraged to make comments and recommend changes concerning clarity and understandability of the questions and procedures used to administer the survey. The interviews were conducted either in group or individual settings, depending on the pretest size. The spouses' comments were then categorized and are summarized below.

Summary of Survey Comments

As mentioned above, all comments made by the respondents were recorded. Since the purpose of the pretest was to determine if any of the questions were misleading or unclear and to rewrite them if necessary, each comment was carefully and independently evaluated, even if it only appeared once in the pretest comments. As a result of this

process, several items were changed on the survey to reflect the comments of those participating in the pretest (Appendix D).

Overall Survey Comments

Although there originally was some concern over the length of the experimental version (140 questions), no one participating in the pretest objected to its length. In fact, when directly asked if the survey were too long, none of the respondents answered in the affirmative.

Other general comments were made about the survey. Several spouses commented that the "scales" before questions 1, 18, 36, and 51 on the experimental version were not clear. They felt that the neutral block should be "not applicable" instead of "not appropriate." "Not appropriate" was viewed as a value judgement of the item being evaluated whereas "not applicable" appears to be free of judgement bias.

Specific Item Comments

Item 24. "It is important to me to have a career of my own." Two respondents commented that the wording of item 24 implied that being a wife and mother is not a career and denigrates that job. The item was changed to read "an income-producing career."

Item 27. "The Air Force lifestyle causes more stress on a marriage than other lifestyles." Several respondents commented that they were uncertain whether they were to compare the Air Force lifestyle to a civilian lifestyle or to another military lifestyle, such as Navy or Army life. Since the intent of the question was to compare spouses' perceptions of Air Force lifestyle to civilian lifestyles, the statement was changed to read "than non-military lifestyles."

Item 28. "I believe my wishes and desires have an impact on my spouse's career intent." Two respondents commented that this statement was unclear and they were not certain what was meant by "my spouse's career intent." This item was changed to read, "whether my spouse intends to make the Air Force a career."

Item 30. "My spouse has an important job." One respondent commented that "important" is a highly subjective word and may imply "powerful" rather than useful to society, as was intended. Therefore, the word "important" was changed to "worthwhile."

Item 32. "Air Force families are closer or more cohesive than those outside the Air Force." The feedback on this item indicated that the statement was too all-encompassing. Even respondents who agreed with this

statement did not feel it was true for all Air Force families. The word "most" was therefore added to the beginning of the statement.

Item 37. "My attitude about my spouse's job is important to him or her." Several respondents commented that this statement was "awkward" and that it was stated too absolutely. Therefore, the phrase "my attitude about" was changed to "how I feel about."

Item 50. "When we have problems in our family, we usually try to solve them ourselves." This statement did not communicate the variable we wished to measure. Instead of finding out if the family sought outside help in solving problems the item was interpreted as tapping whether the family made an attempt at solving its problems. The word "ourselves" was changed to "without help from outside sources."

Item 52. "I make important decisions affecting the family by myself." This statement was somewhat confusing since all spouses are called upon at times to make important decisions by themselves. The intent of this item was clarified by inserting the word "often" between "I" and "make."

Item 55. "I am not free to decide when to do the things I want to do." Several spouses commented that this

item was confusing and that they were not sure of what the survey was trying to ask. The phrase "free to" seemed to cause the confusion since most spouses felt that they were "allowed" to decide when to do things but that family commitments and responsibilities often kept them from either doing the things they wanted to do or doing them when they wanted to do them. The phrase "am not free to" was dropped out of the statement in the hopes that the statement would now be more straightforward.

Scale for items 80 through 98. A few spouses were uncertain what was meant by "level of satisfaction." They pointed out that although they were satisfied with the listed services in some areas they still felt that there could be improvement in many of them. Since these questions were not intended to evaluate base services in depth and were only intended to measure the spouse's general attitude toward them, the statement was changed to read "overall level of satisfaction."

Items 65 and 83. One newly married spouse commented that she did not know what an "Open Mess" was (she had always heard it referred to as "the club"). The remark "(club)" was added after "Open Mess" to clarify these items.

Scale for items 99 through 108. Almost one-third of the spouses commented that the scale for items 99 through

108 was confusing. The spouses either did not understand what the items were trying to determine or could not see how the scale fit the items. Closer questioning of the spouses revealed that many thought the survey was trying to evaluate the value of the items mentioned when, in reality, the intent was to measure what impact the spouse felt that this item had the member's intention to make the Air Force a career. An example was added to the scale to clarify the question.

Data Analyses

Survey results were analyzed in four categories: frequencies of item responses, tests of the item means between officer and enlisted spouses, correlations (tendency to vary together in some systematic manner) between items, and groupings of similar items. Although there were too few responses for a factor analysis, a cluster analysis was performed for exploratory purposes.

Summary of Data Analyses

Frequencies of item responses. As previously mentioned, the response scale for the survey items range from zero to seven with zero being a "not appropriate" response. For data analysis purposes, items which were skipped (not

marked) on the survey were coded as an eight. Frequencies of the item responses are shown in Appendix D, which provides an overall summary (snapshot) of the survey sample. For example, an examination of the table reveals that except for the base exchange, commissary, and medical care, most of the spouses do not utilize listed base services.

Officer-enlisted spouse comparison. There were statistically significant ($p < .05$) officer-enlisted spouse differences on eight survey items (1, 2, 16, 27, 32, 36, 45, and 58). Enlisted spouses felt more stress and disruption from the Air Force lifestyle (items 16, 27, and 36) than officer spouses. Spousal and family cohesion (items 32 and 58) were higher for officer spouses than for enlisted spouses. Enlisted spouses felt more involved with the Air Force lifestyle (item 1) while officer spouses were more traditional about the wife being more responsible for running the household (item 45). Officer-enlisted means, standard deviations, and t -values are listed in Table 2.

Correlations between items. Inter-item correlations (a measure of relatedness between items) are summarized in Appendix E.

Table 2
Officer-Enlisted Spouse Item Comparison

ITEM	Officer		Enlisted		df=42
	<u>M</u>	<u>SD</u>	<u>M</u>	<u>SD</u>	<u>t-value</u>
1	5.77	1.45	6.64	1.58	-2.60*
2	6.45	.74	5.32	1.25	3.67**
3	4.60	2.21	4.59	1.30	.02
4	6.05	1.33	6.14	1.25	-.23
5	5.77	1.31	5.55	1.37	.56
6	5.09	2.02	5.77	1.51	-1.27
7	5.33	1.43	4.50	1.54	1.80
8	4.09	1.97	4.19	1.60	-.18
9	6.14	1.52	6.59	.67	-1.28
10	4.73	1.72	4.68	1.64	.09
11	5.91	1.82	6.36	1.09	1.00
12	5.35	2.11	5.56	1.67	-.33
13	5.05	1.89	4.95	1.86	.16
14	5.35	1.73	5.64	1.56	-.57
15	5.50	1.92	5.64	1.84	-.24
16	4.23	2.20	5.50	1.60	-2.19*
17	2.09	1.88	2.45	1.99	-.62
18	6.55	.96	6.36	.85	.66
19	3.00	2.12	2.95	1.40	.08
20	6.09	1.57	6.50	.86	-1.07
21	3.16	1.61	3.29	1.65	-.25
22	4.64	1.89	4.90	2.17	-.42
23	3.95	2.04	4.00	1.45	-.09
24	4.90	1.84	4.45	2.09	.75
25	5.77	1.63	6.23	1.02	-1.11
26	5.76	1.30	5.30	1.17	1.19
27	3.68	1.89	5.05	1.33	-2.77**
28	5.43	1.78	5.18	1.53	.49
29	5.62	1.60	6.00	1.61	-.77
30	6.68	.57	6.24	1.26	1.50

* $p < .05$.

** $p < .01$.

Table 2 (cont.)

Officer-Enlisted Spouse Item Comparison

ITEM	Officer		Enlisted		df=42
	<u>M</u>	<u>SD</u>	<u>M</u>	<u>SD</u>	<u>t-value</u>
31	6.24	1.38	5.91	1.41	.77
32	5.27	1.67	4.27	.63	2.63*
33	2.62	2.01	2.59	1.59	.05
34	4.05	2.14	3.22	1.06	1.48
35	6.56	1.25	6.62	.92	-.18
36	3.14	2.34	4.85	1.66	-2.71**
37	6.55	.80	6.05	1.00	1.83
38	6.77	.53	6.50	1.01	1.12
39	2.95	2.25	2.90	1.61	.08
40	3.10	2.34	3.38	2.22	-.39
41	3.91	2.39	3.50	2.11	.60
42	6.45	1.10	6.64	.66	-.66
43	6.09	1.38	5.32	1.49	1.78
44	6.45	1.06	6.05	1.63	.98
45	4.27	2.37	2.86	1.75	2.24*
46	3.64	2.30	3.45	2.41	.26
47	2.86	1.58	3.00	1.48	-.30
48	2.82	2.28	3.38	1.72	-.91
49	5.64	1.76	5.14	1.83	.92
50	6.36	1.40	6.36	1.09	.00
51	5.55	1.90	5.77	1.27	-.47
52	4.41	2.48	4.18	1.76	.35
53	3.59	2.06	4.36	1.79	-1.33
54	3.59	2.66	3.83	1.47	-.38
55	2.71	2.31	2.90	1.92	-.29
56	4.84	2.09	5.05	1.91	-.33
57	6.55	1.41	6.36	1.00	.49
58	6.45	.91	5.64	1.59	2.09*
59	3.95	2.36	4.95	1.99	-1.51
60	6.18	1.44	6.32	.65	-.41
61	6.59	.67	6.14	.99	1.79

* $p < .05$.** $p < .01$.

Grouping of similar items. Cluster analysis resulted in eight groupings of similar items. Items in parentheses are those left "ungrouped" by the analysis and were grouped subjectively by the author.

Table 3
Grouping of Similar Items

<u>Grouping</u>	<u>Items</u>
Impact of Air Force on the family	17, 19, 21, 27, 32, 33, 34, (36), 39, 47
Career issues	(12), 14, 24, 25, 28, 29, (40), (41), (42)
Family cohesion	6, (48), 49, 50, 53, 58
Marital relationship	20, 37, (43), 54, (55), (56), 57, (59), 60, 61
Traditional values	3, (44), 45, 46, (52)
Views on spouse's job	5, (11), 15, (16), 18, (22), 30, 31, 35, 38
Views on the Air Force	2, 7, 8, 10, 23, 26, 41
Social aspects of Air Force lifestyle	1, 4, 9, 51

Chapter Four

SUMMARY, DISCUSSION, AND CONCLUSIONS

Summary

As was mentioned in previous chapters, family patterns in the Air Force are rapidly changing. Air Force leaders are increasingly aware of these changes and are concerned about the impact these trends will have on retention and readiness. The Leadership and Management Development Center (LMDC) developed the AFFS to measure spousal attitudes and other factors important to retention. Officials at LMDC recognized the need for improving their research instrument, and Dansby (1984) recommended several variables be added to the survey. The purpose of this research was to assist LMDC in revising the AFFS to improve its technical and statistical properties, and to broaden its usefulness for theoretical, research, and practical applications. In order to do this, several tasks were undertaken:

(1) A review of the current literature was conducted to establish the relative importance of factors in the AFFS measures the link between work and family factors in the Air Force.

(2) The experimental survey was given to 22 officers' spouses and 22 enlisted members' spouses (Table 1) assigned at Maxwell AFB and Gunter AFB. After taking the pretest, participants were interviewed and were encouraged to make comments and recommend changes concerning clarity and understandability of the questions. All comments were then categorized and recorded.

(3) All comments made by the participants were carefully and independently evaluated and, as a result of the pretest, several items on the experimental version of the AFFS were revised (Appendix C).

(4) Summary statistics were used to analyze the survey results. The survey results were analyzed in four categories: (a) frequencies of item responses (Appendix D), (b) tests of the item means between officer and enlisted spouses (Table 2), (c) correlations (tendency to vary together in some systematic manner) between items and, groupings of similar items (Appendix E) and, (d) cluster analysis of similar items (Table 3).

Discussion and Conclusions

Family patterns in the United States are changing and Air Force policies and programs must change with the times

if the Air Force expects to stay competitive in the job market. The Air Force must find ways to assess its people's needs and to respond to those needs. The AFFS can assist Air Force leadership in measuring spousal attitudes.

The review of current literature indicates that major factors considered important in assessing the link between work and family factors have been incorporated into the revised AFFS. The survey now contains 140 items and would appear to tap items of major interest to the Air Force and items most closely linked to retention and job satisfaction issues. Although any survey can be improved, this revision appears to be a significant improvement over the original version.

The feedback received during the post-pretest interviews was excellent. There was originally some concern over the length of the revised survey and subsequent fear that participants would find it too long. However, the respondents' comments on the survey were very favorable and indicate that the length will not pose a problem. Further, negative feedback and specific recommendations for item changes were minimal. Given the minor nature of most of the changes, the survey appears to be ready for field administration via normal consultant data gathering.

Since the sample used to pretest the AFFS was not necessarily representative of the Air Force, caution should be used in interpreting the results. Also, the sample size was rather small (44) and therefore any results may be skewed. However, the data analyses revealed several trends which may warrant further investigation. For example, a spouse's attitude toward, and commitment to, the military lifestyle is the factor most often suggested as a family influence on the military member's job. Further, these attitudes seem to affect career intentions (Dansby, 1984). Enlisted spouses in the sample indicated that they felt more involved with the Air Force lifestyle but also that they felt more stress and disruption from the Air Force lifestyle. Further studies should be conducted to determine if this is an Air Force wide trend.

In order to further measure the reliability of the revised AFFS, it should be administered to a large group of spouses. Responses should be factor-analyzed and revised as necessary.

In the future, revisions of the AFFS should be handled on an ongoing basis. If future studies reveal additional family issues or variables which are related to work variables, they should be incorporated into the survey.

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APPENDIX A
U.S. AIR FORCE SPOUSE SURVEY



LEADERSHIP AND MANAGEMENT DEVELOPMENT CENTER

MAXWELL AIR FORCE BASE, ALABAMA

PRIVACY ACT STATEMENT

In accordance with AFR 12-35, The Air Force Privacy Act Program, the following information about this survey is provided:

a. Authority: 10 U.S.C., 8012, Secretary of the Air Force: Powers and Duties, Delegation by Compensation E.O. 9397, 22 Nov 43, Numbering System for Federal Accounts Relating to Individual Persons.

b. Principal Purpose: The survey is being conducted to assess spouse attitudes across a variety of issues relating to Air Force life style.

c. Routine Uses: Information provided by respondents will be treated confidentially. The averaged data will be used for strength and weakness identification of various programs and for Air Force wide research and development purposes.

d. Participation: Response to this survey is voluntary. Your cooperation in this effort is appreciated.

GENERAL INFORMATION

The results of this survey can be important to Air Force families worldwide. This survey concerns you, the SPOUSE of the Air Force member, and your attitude about the Air Force as a way of life. You will be responding to questions relating to base services, medical services, your spouse's job, and other factors that relate to your quality of life.

This is not a test, there are no right or wrong responses. For the results to be useful, it is important that you respond to each statement thoughtfully, honestly, and as frankly as possible. Use the enclosed response sheet, since we will reuse the survey booklets.

Your response sheet will be processed by automated equipment at Air University. Your individual responses will remain confidential. Response sheets are processed only by Leadership and Management Development Center personnel and will not be seen by anyone in your spouse's organization or on his/her base. Your responses will be combined with the responses of many other spouses and used for organization-wide or Air Force-wide studies concerning the quality of life of Air Force families.

THANK YOU FOR YOUR PARTICIPATION

INSTRUCTIONS FOR SECTION 1

Please fill in the following blocks in Section 1 of your response sheet using a #2 lead pencil.

Please take the 5-1/2 X 7 sheet of computer paper and your response sheet and fill in the code responses to items 116 through 120 in Section 2. This code was used by your spouse on the response sheet for the Organizational Assessment Package (OAP), and putting it on your response sheet will enable us to match couples' responses to both surveys.

The computer response sheet you are using is the one designed for the OAP, so some of the blocks will not apply for the Spouse Survey.

1. In block #1 write in either "Female" or "Male" as appropriate to you. Also, indicate your "sex" by blackening the "M" oval if you are male, or the "F" oval if you are female.

Example:

1111
SEX
Sex
F
<input type="radio"/> M
<input checked="" type="radio"/> F

2. In block #2 write in your age and blacken the corresponding numbered ovals.

Example:

11111
SECTION 1
Your age is
37
<input type="radio"/> 0
<input type="radio"/> 1 <input type="radio"/> 1
<input type="radio"/> 2 <input type="radio"/> 2
<input checked="" type="radio"/> 3 <input type="radio"/> 3
<input type="radio"/> 4 <input type="radio"/> 4
<input type="radio"/> 5 <input type="radio"/> 5
<input type="radio"/> 6 <input type="radio"/> 6
<input type="radio"/> 7 <input checked="" type="radio"/> 7
<input type="radio"/> 8 <input type="radio"/> 8
<input type="radio"/> 9 <input type="radio"/> 9

3. In block #3 write in your SPOUSE'S status. For example: A sergeant is "Enlisted," a Major is an "Officer." If your spouse is a civilian, write in "Civilian." Blacken the oval to the right of the word that identifies your spouse's status.

|||

You are:	
ENLISTED	<input checked="" type="radio"/>
Officer	<input type="radio"/>
Enlisted	<input type="radio"/>
GS	<input type="radio"/>
WG	<input type="radio"/>
WL	<input type="radio"/>
WS	<input type="radio"/>
WB	<input type="radio"/>
WN	<input type="radio"/>
NAF	<input type="radio"/>

4. In block #4 write in both numbers of your SPOUSE'S pay grade. For example: For the rank of Major, you would blacken "04." For the rank of Staff Sergeant you would darken "05." Please note the rank structure chart below.

2nd Lt	01	Airman Basic	01
1st Lt	02	Airman 1st	02
Capt	03	Senior Amn	03
Maj	04	Sgt	04
LtC	05	Staff Sgt	05
Col	06	Tech Sgt	06
BG	07	Master Sgt	07
MG	08	Senior MSgt	08
G	09	Chief MSgt	09

||||

Your Pay
Grade is

0	6
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

LMDC
Form
Sep 78
46

5. Please do not complete any other blocks in Section 1.

INSTRUCTIONS

1. All statements may be answered by filling in the appropriate spaces on the response sheet provided. If you do not find a response that fits your case exactly, use the one that is the closest to the way you feel.
2. Be sure that you have completed Section 1 of the response sheet, before beginning Section 2.
3. Please use a #2 pencil and observe the following:
 - Make heavy black marks that fill the spaces.
 - Erase cleanly any responses you wish to change.
 - Make no stray markings of any kind on the response sheet.
 - Do not staple, fold or tear the response sheet.
 - Do not make any markings on the survey booklet.
4. The response sheet has a 0-7 scale. The survey statements normally require a 1-7 response. Use the zero (0) response only if the statement truly does not apply to your situation. Statements are responded to by marking the appropriate space on the response sheet as in the following example:

Using the scale below, evaluate the sample statement.

- | | |
|--------------------------------|----------------------|
| 1 = Strongly disagree | 5 = Slightly agree |
| 2 = Moderately disagree | 6 = Moderately agree |
| 3 = Slightly disagree | 7 = Strongly agree |
| 4 = Neither agree nor disagree | |

Sample Statement. My spouse is happy in the Air Force

If you moderately agree with the sample statement, you would blacken the oval (6) on the response sheet.

Sample Response: NA
 (0) (1) (2) (3) (4) (5) (6) (7)

5. Unless otherwise requested, please respond to the survey statements with your present assignment and your spouse's current job in mind.
6. When you have completed the survey, please seal the booklet and response sheet in the envelope and return the survey materials as instructed.

This section of the survey requests background information applicable to you and your spouse. This information is necessary for us to look at Air Force-wide issues, not to identify individuals. Please use the separate response sheet and darken the oval which corresponds to your response to each question.

1. How many years does your spouse have in the Air Force?

1. Less than 1 year.
2. More than 1 year, less than 2 years.
3. More than 2 years, less than 3 years.
4. More than 3 years, less than 4 years.
5. More than 4 years, less than 8 years.
6. More than 8 years, less than 12 years.
7. More than 12 years.

2. How many months have you been at this station (base) during this assignment?

1. Less than 1 month.
2. More than 1 month, less than 6 months.
3. More than 6 months, less than 12 months.
4. More than 12 months, less than 18 months.
5. More than 18 months, less than 24 months.
6. More than 24 months, less than 36 months.
7. More than 36 months.

3. How many years have you been married to your spouse?

1. Less than 1 year.
2. More than 1 year, less than 4 years.
3. More than 4 years, less than 8 years.
4. More than 8 years, less than 12 years.
5. More than 12 years, less than 16 years.
6. More than 16 years, less than 20 years.
7. More than 20 years.

4. Where do you live?

1. On the base to which my spouse is assigned
2. On another military installation
3. Off Base, renting
4. Off Base, buying

5. If you live on base, why?

1. I live off base.
2. Quality and availability of schools.
3. Off base housing is too expensive.
4. Off base housing not available.
5. Requirements of spouse's job.
6. Base housing occupancy requirements.
7. Other

6. If you live off base, why?

1. I live on base.
2. Quality and availability of schools.
3. Base housing not available.
4. Investment in housing is part of our financial plan.
5. Not eligible for base housing.
6. Base housing does not meet our requirements. (Space, design, etc.)
7. Other

7. What is your Ethnic Group?

1. American Indian or Alaskan Native
2. Asian or Pacific Islander
3. Black, not of Hispanic Origin
4. Hispanic
5. White, not of Hispanic Origin
6. Other

8. What is the highest education level you have obtained?

1. Non-high school graduate
2. High school graduate or GED
3. Less than two years college
4. Two years or more college
5. Bachelors Degree
6. Masters Degree
7. Doctoral Degree

9. How many children do you have?

- | | |
|---------|--------------|
| 1. None | 5. 4 or 5 |
| 2. 1 | 6. 6, 7 or 8 |
| 3. 2 | 7. 9 or more |
| 4. 3 | |

10. How many children presently live at home?

- | | |
|---------|---------------|
| 1. None | 5. 4 or 5 |
| 2. 1 | 6. 6, 7, or 8 |
| 3. 2 | 7. 9 or more |
| 4. 3 | |

11. Are you employed in an income producing job?

1. No, and do not want to be employed.
2. No, would like to work but cannot find employment.
3. Yes, part time.
4. Yes, active duty military.
5. Yes, federal civil service.
6. Yes, other full time employment.

12. If you are employed, what is your usual work schedule?

1. Not employed
2. Day shift, normally stable hours
3. Swing shift (about 4 P.M. to midnight)
4. Mid shift (about midnight to 8 A.M.)
5. Rotating shift schedule
6. Day or shift work with irregular/unstable hours
7. Frequent travel or frequently on-call to report to work

13. If you are employed, why do you work?

1. Not employed
2. Financial necessity
3. To earn "extra" money
4. Personal growth and development
5. Professional growth and development
6. Other

14. Are you a student?

1. No
2. Yes, full time undergraduate
3. Yes, part time undergraduate
4. Yes, full time graduate
5. Yes, part time graduate
6. Other

15. Do you do volunteer work?

1. No
2. Yes, on base
3. Yes, off base
4. Yes, on and off base

Please indicate your agreement by choosing the phrase which best represents your attitude concerning the following statements.

- | | |
|--------------------------------|----------------------|
| 1 = Strongly disagree | 5 = Slightly agree |
| 2 = Moderately disagree | 6 = Moderately agree |
| 3 = Slightly disagree | 7 = Strongly agree |
| 4 = Neither agree nor disagree | |

16. I feel involved with the Air Force lifestyle.
17. I would recommend an Air Force career for any young man or woman, including a son or daughter of mine.
18. My participation in base or organizational activities is essential for my spouse to achieve his/her full promotion potential in the Air Force.
19. An Air Force career has as much prestige and status as a civilian career.
20. I am interested in being informed and kept up-to-date on subjects related to the Air Force role and mission.
21. It is important for me to know about the kind of work my spouse is doing.
22. The Air Force has made considerable efforts to make service life more attractive for members and their families.
23. My spouse has to devote more time to "staying competitive" for promotion by means of service schools, college degrees, etc., than does his/her civilian counterpart.
24. My spouse has been under a lot of pressure as a result of his/her Air Force job.
25. My spouse's abilities are fully used in his/her current job.
26. My spouse has an important job.
27. I am glad my spouse chose the Air Force as a career.
28. My spouse feels positive about his/her contribution to the Air Force.
29. My spouse has to devote more time to his/her job than his/her civilian counterpart.
30. I would encourage my spouse to extend his/her military career if there were fewer moves.
31. The effect of PCS moves on family life is an important factor in my spouse's career decision.
32. Air Force leaders are sensitive to the needs of Air Force families.

For the various services listed below, please indicate your level of satisfaction.

- | | |
|--|--------------------------|
| 1 = Extremely dissatisfied | 5 = Slightly satisfied |
| 2 = Moderately dissatisfied | 6 = Moderately satisfied |
| 3 = Slightly dissatisfied | 7 = Extremely satisfied |
| 4 = Neither satisfied nor dissatisfied | |

- 33. Base Exchange
- 34. Commissary
- 35. Military Medical Care
- 36. Open mess
- 37. Recreation center
- 38. Base library
- 39. Auto hobby shop
- 40. Bowling Center
- 41. Golf
- 42. Arts and Crafts
- 43. Child care

44. Which of the following best describes your desires for your spouse's career or employment intentions?

1. I would like my spouse to separate/terminate from the Air Force as soon as possible.
2. For the most part, I would like my spouse to not make the Air Force a career.
3. I am undecided as to my desires concerning my spouse making the Air Force a career.
4. For the most part, I would like my spouse to make the Air Force a career.
5. I would like my spouse to make the Air Force a career.
6. I would like my spouse to retire in the next 12 months.

45. Your spouse may have different career intentions than you would hope. Which of the following best describes your spouse's career or employment intentions?

1. Will separate/terminate from the Air Force as soon as possible
2. Will most likely not make the Air Force a career
3. May continue in/with the Air Force
4. Will most likely continue in/with the Air Force as a career
5. Will continue in/with the Air Force as a career
6. Planning to retire in the next 12 months

Using the responses provided below, please indicate the extent to which you believe each of the factors listed is important in determining your spouse's career intention.

- | | |
|-----------------------------|------------------------------|
| 1 = Not at all | 5 = To a fairly large extent |
| 2 = To a very little extent | 6 = To a great extent |
| 3 = To a little extent | 7 = To a very great extent |
| 4 = To a moderate extent | |

46. Job satisfaction
47. Status and prestige
48. Rate of pay
49. Medical/dental benefits
50. Job Security
51. Retirement
52. Patriotism
53. Other

Using the same set of responses, please indicate the extent to which each of the factors listed is important in how you feel about your spouse's career intention.

54. Job satisfaction
55. Status and prestige
56. Rate of pay
57. Medical/dental benefits
58. Job security
59. Retirement
60. Patriotism
61. Other

TDY is defined as temporary military duty, and the maximum length of a TDY assignment is 179 days.

62. My spouse's job requires him/her to be TDY:

1. Less than once a year
2. Once or twice a year
3. 3 to 5 times a year
4. 6 to 9 times a year
5. 9 to 11 times a year
6. Once or twice a month
7. More than twice a month

63. How long does each TDY normally last?

1. Less than 3 days
2. More than 3 but less than 7 days
3. More than 7 but less than 14 days
4. More than 14 but less than 21 days
5. More than 21 but less than 30 days
6. More than 30 days
7. Duration varies widely

For the following items, select the most appropriate phrase and enter the corresponding number on the response sheet.

- | | |
|-----------------------------|------------------------------|
| 1 = Not at all | 5 = To a fairly large extent |
| 2 = To a very little extent | 6 = To a great extent |
| 3 = To a little extent | 7 = To a very great extent |
| 4 = To a moderate extent | |

64. To what extent does the frequency of your spouse's TDY affect your family's life?

65. To what extent do the length of your spouse's TDYs affect your family's life?

66. To what extent do you believe TDY requirements influence your spouse's career intentions?

67. To what extent do the TDY requirements of your spouse's job influence your opinion of the desirability of the Air Force lifestyle?

Below are items which relate to your spouse's job. Read each statement carefully and then decide to what extent the statement is true of your spouse's job. Indicate the extent to which the statement is true for his/her job by choosing the most appropriate phrase.

- | | |
|-----------------------------|------------------------------|
| 1 = Not at all | 5 = To a fairly large extent |
| 2 = To a very little extent | 6 = To a great extent |
| 3 = To a little extent | 7 = To a very great extent |
| 4 = To a moderate extent | |

68. To what extent do your spouse's duty hours disrupt your family life?
69. To what extent is your attitude about your spouse's job an important consideration to him/her?
70. To what extent are you proud of your spouse's job?
71. To what extent would you be happier if your spouse was doing a similar job only as a civilian?
72. To what extent would you like your spouse to change the job he/she is now doing, but remain in the Air Force?
73. To what extent do you believe that the pay and allowances earned by your spouse are in proportion to the job he/she performs?

Please use this sheet for any comments you may have, then return it along with your response sheet and survey booklet.

APPENDIX B

EXPERIMENTAL VERSION: U.S. AIR FORCE FAMILY SURVEY

EXPERIMENTAL VERSION: NOT FOR RELEASE



LEADERSHIP AND MANAGEMENT DEVELOPMENT CENTER

MAXWELL AIR FORCE BASE, ALABAMA

PRIVACY ACT STATEMENT

In accordance with AFR 12-35, The Air Force Privacy Act Program, the following information about this survey is provided:

a. Authority: 10 U.S.C., 8012, Secretary of the Air Force: Powers and Duties, Delegation by Compensation E. O. 9397, 22 Nov 43, Numbering System for Federal Accounts Relating to Individual Persons.

b. Principal Purpose: The survey is being conducted to assess spouse/family attitudes across a variety of issues relating to Air Force lifestyle.

c. Routine Uses: Information provided by respondents will be treated confidentially. The averaged data will be used for strength and weakness identification of various programs and for Air Force-wide research and development purposes.

d. Participation: Response to this survey is voluntary. Your cooperation in this effort is solicited, encouraged, and appreciated.

GENERAL INFORMATION

The Air Force is concerned with the morale, attitudes, needs, and welfare of service families, and this survey is an attempt to measure the "pulse" of these important factors. Because of the potential contribution to policy-making, results of this survey can be important to Air Force families worldwide. The survey concerns you, the SPOUSE of an Air Force member, your family, and your attitude towards the Air Force as a way of life. You will be responding to questions about issues and situations that relate to the quality of life for your family.

This is not a test so there are no right or wrong answers. All that is asked is that you answer each item thoughtfully, honestly, and as frankly as possible. Please do not mark on this booklet, as it will be reused. Use the enclosed answer sheet and comment sheet.

Your answer sheet will be processed by automated equipment at Air University, and individual answers are totally CONFIDENTIAL. Answer sheets are processed only by Leadership and Management Development Center personnel and will not be seen by anyone in your spouse's organization or on his/her base. Your answers will be combined with those of other spouses and used for organization-wide or Air Force-wide considerations of the quality of life for Air Force families. Your contribution will be both valued and appreciated, and we thank you for your participation.

INSTRUCTIONS FOR SECTION 1

Please fill in the indicated blocks of Section 1 on your answer sheet using a #2 lead pencil. The computer answer sheet you are using is a multiple use form, so don't be concerned that you don't use all of the blocks. In Section 1 of the answer sheet, complete only blocks 1 and 2, using the following instructions:

In Block #1, indicate your sex by darkening the "M" oval if you are male or the "F" oval if you are female.

In Block #2, darken the numbers corresponding to your age.

GENERAL INSTRUCTIONS

Respond to all items by filling in the appropriate ovals on the answer sheet. If you do not find an answer that fits your case exactly, use the one closest to the way you feel.

Please be sure that you have completed Section 1 of the answer sheet before beginning Section 2.

Please use a #2 pencil and:

- make heavy black marks that fill the desired oval.
- erase cleanly any answer you wish to change.
- make no stray marks of any kind on the answer sheet.
- do not staple, fold, or tear the answer sheet.
- make no marks on the survey booklet.

The answer sheet has a 0 to 7 scale. The survey items normally require a 1 to 7 response. Use the zero (0) response if the item truly does not apply to your situation. Respond to items by marking the appropriate oval on the answer sheet as in the following example:

Using the scale below, evaluate the sample statement.

- | | |
|-------------------------|--------------------------------|
| 0 = Not appropriate | 4 = Neither agree nor disagree |
| 1 = Strongly disagree | 5 = Slightly agree |
| 2 = Moderately disagree | 6 = Moderately agree |
| 3 = Slightly disagree | 7 = Strongly agree |

Sample Statement: I am pleased with the Child Care Center on this base.

If you moderately agree with the sample statement, you would darken oval (6) on the response sheet. If you haven't used the child care center, or if there is no child care center on your base, you would darken oval (0).

Sample Response: (0) (1) (2) (3) (4) (5) (6) (7)

Please answer the survey items with your spouse's present assignment and current job in mind.

When you have completed the survey, please put the booklet, answer sheet, and comment sheet in the envelope provided, seal the envelope, and return it to your spouse. Your spouse will return the sealed envelope to the person collecting the survey in his or her organization.

Please indicate the degree of agreement best representing your attitude concerning the following statements (#1 - #61).

- | | |
|-------------------------|--------------------------------|
| 0 = Not appropriate | 4 = Neither agree nor disagree |
| 1 = Strongly disagree | 5 = Slightly agree |
| 2 = Moderately disagree | 6 = Moderately agree |
| 3 = Slightly Disagree | 7 = Strongly agree |
-

1. I feel involved with the Air Force lifestyle.
2. I would recommend the Air Force as a career to many people I know.
3. My participation in base, unit, or Air Force activities is essential to help my spouse achieve his or her full promotion potential.
4. I feel I am a part of the Air Force community.
5. An Air Force career has as much prestige and status as other careers.
6. I need to know Air Force customs and courtesies.
7. The Air Force lifestyle offers good conditions for raising children.
8. Air Force leaders are aware of the needs of Air Force families.
9. I am interested in being informed and kept up-to-date on subjects related to the Air Force role and mission.
10. The Air Force tries to make service life more attractive for members and their families.
11. It is important for me to know about the kind of work my spouse is doing.
12. If I had to choose between doing what's best for my spouse's career and doing what's best for my children, I'd put my children first.
13. Air Force people must spend more time than people in other careers "staying competitive" for promotion through schooling and training.
14. The special demands of my spouse's career cause problems for our family that non-Air Force families don't have.
15. My spouse's abilities are well used in his or her current job.
16. My spouse is under a lot of pressure as a result of his or her Air Force job.
17. Being with the Air Force makes it difficult to make friends and socialize.

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18. I am glad my spouse joined or works for the Air Force.
19. I believe there are more drug and alcohol problems in the Air Force community than in the outside community.
20. I think my spouse feels positive about his or her contributions to the Air Force.
21. We move (relocate, "go PCS", or transfer) too often.
22. I think my spouse devotes more time to his or her career than do people in similar careers outside the Air Force.
23. Air Force leaders are sensitive to the needs of Air Force families.
24. It is important to me to have a career of my own.
25. I believe that my spouse can influence his or her career advancement.
26. I would recommend an Air Force career to a son or daughter of mine.
27. The Air Force lifestyle causes more stress on a marriage than other lifestyles.
28. I believe my wishes and desires have an impact on my spouse's career intent.
29. I believe performance reports (like OER's, APR's, civilian appraisals) are more important to my spouse's promotions than for people in non-Air Force jobs.
30. My spouse has an important job.
31. I want my spouse to make the Air Force a career.
32. "Air Force families" are closer or more cohesive than those outside the Air Force.
33. I would urge my spouse to leave the Air Force rather than accept a transfer (PCS move) that didn't fit in our family plans.
34. Children have a difficult time adjusting to the Air Force lifestyle.
35. To the best of my knowledge, my spouse plans to make the Air Force a career.

0 = Not appropriate	4 = Neither agree nor disagree
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2 = Moderately disagree	6 = Moderately agree
3 = Slightly disagree	7 = Strongly agree

36. My spouse's work hours disrupt our family life more than if my spouse had a non-Air Force job.
37. My attitude about my spouse's job is important to him or her.
38. I am proud of my spouse's job.
39. I would be happier if my spouse were doing a similar job outside the Air Force.
40. I would like my spouse to change his or her present job but remain with the Air Force.
41. I believe the pay, allowances, and benefits earned by my spouse are fair for the job he or she does.
42. My spouse has skills that would qualify him or her for a good job outside the Air Force.
43. I am able to pursue my own interests in life, independent of my spouse's activities.
44. In our family, it is O.K. for the wife to work outside the home even if it isn't an absolute financial necessity.
45. Even if a wife works outside the home, she should still be responsible for running the household.
46. The husband should have the final word in most of the important decisions in our family.
47. Overall, friends in the off-base community are more important to our family than friends in the Air Force community.
48. In our family, everyone goes his or her own way.
49. Our family almost always does things together.
50. When we have problems in our family, we usually try to solve them ourselves.

0 = Not appropriate	4 = Neither agree nor disagree
1 = Strongly disagree	5 = Slightly agree
2 = Moderately disagree	6 = Moderately agree
3 = Slightly disagree	7 = Strongly agree

- 51. We often have friends over to visit in our home.
- 52. I make important decisions affecting the family by myself.
- 53. I sometimes feel socially isolated.
- 54. We have found outside agencies (counselors, chaplain, Family Support Center, etc.) can help in solving family problems.
- 55. I am not free to decide when to do the things I want to do.
- 56. Our family seeks help from others only as a last resort.
- 57. In general, I am happy with my marriage.
- 58. I am very pleased with the way my spouse and I express affection for each other.
- 59. I wish my spouse and I communicated better with each other.
- 60. My spouse and I agree on most of the major issues of life.
- 61. Taking things all together, I'd say I'm very happy these days.

Items #62 - #98 concern services that may or may not be available to you. If you don't have access to any of the services, leave responses #62 to #98 blank and go to Item #99. If you have access to some (but not all) of the services, please answer for those you have access to.

For the services listed below (#62 - #79), please indicate how often you or your family use them.

0 = Not available on this base
1 = Not used
2 = Once or twice a year
3 = Every few months

4 = Once or twice a month
5 = Once a week
6 = Several times a week
7 = Daily

62. Base Exchange

71. Arts and Crafts Hobby Shop

63. Commissary

72. Child Care Center

64. Medical care

73. Gymnasium

65. Open Mess

74. Family Support Center

66. Recreation Center

75. Chapel and Chaplains

67. Base Library

76. Theater

68. Auto Hobby Shop

77. Youth Center

69. Bowling Center

78. Base Exchange Cafeteria
or Snack Bar

70. Golf (course/club)

79. Education Services Center

For the services listed below (#80 - #98), please indicate your level of satisfaction.

0 = Not available or not used
1 = Extremely dissatisfied
2 = Moderately dissatisfied
3 = Slightly dissatisfied

4 = Neither satisfied nor dissatisfied
5 = Slightly satisfied
6 = Moderately satisfied
7 = Extremely satisfied

80. Base Exchange

89. Arts and Crafts

81. Commissary

90. Child Care Center

82. Medical care

91. Gymnasium

83. Open Mess

92. Family Support Center

84. Recreation Center

93. Chapel and Chaplains

85. Base Library

94. Theater

86. Auto Hobby Shop

95. Youth Center

87. Bowling Center

96. Base housing

88. Golf (course/club)

97. Base Exchange Cafeteria
or Snack Bar

98. Education Services Center

Using the responses provided below, please indicate how you think each of the factors listed (#99 - #108) affects your spouse's plans about making the Air Force a career.

0 = Not applicable	4 = Neither positively nor negatively
1 = Very negatively	5 = Somewhat positively
2 = Negatively	6 = Positively
3 = Somewhat negatively	7 = Very positively

- 99. Job satisfaction
 - 100. Status and prestige
 - 101. Rate of pay
 - 102. Air Force (or civil service) retirement system.
 - 103. Patriotism
 - 104. Non-Air Force job opportunities
 - 105. Medical benefits
 - 106. Job security
 - 107. TDY requirements (TDY is "temporary duty" in a location different from the normal duty station. The maximum length of a TDY is 179 days.)
 - 108. Family needs
-

Using the scale below, please indicate how you think each of the factors listed (#109 - #117) affects your family's life.

0 = Not applicable	4 = Neither positively nor negatively
1 = Very negatively	5 = Somewhat positively
2 = Negatively	6 = Positively
3 = Somewhat negatively	7 = Very positively

- 109. My spouse's TDY's
- 110. Career field (Air Force specialty, type of job) of your spouse
- 111. Change in family income due to transfer to present base
- 112. Possibility of future assignment outside continental U.S. (CONUS)
- 113. Convenience of base facilities
- 114. Employment opportunities for me in the local area
- 115. Military exercises and recalls
- 116. Being at our present duty station (base)
- 117. Acceptance by people in the local area

This section (#118 - #140) requests information applicable to you and your spouse. This information is necessary to allow consideration of Air Force-wide issues and is not used to identify individuals.

118. (Frequency of TDY's) My spouse's job requires him/her to be TDY:

- | | |
|---------------------------|-----------------------------|
| 0 = Not applicable | 4 = 6 to 8 times a year |
| 1 = Less than once a year | 5 = 9 to 11 times a year |
| 2 = Once or twice a year | 6 = Once or twice a month |
| 3 = 3 to 5 times a year | 7 = More than twice a month |

119. (Length of TDY's) How long does each TDY usually last?

- | | |
|--------------------|-----------------------------|
| 0 = Not applicable | 4 = 15 to 21 days |
| 1 = 3 days or less | 5 = 22 to 30 days |
| 2 = 4 to 7 days | 6 = More than 30 days |
| 3 = 8 to 14 days | 7 = Duration varies greatly |

120. How long has your spouse been with the Air Force?

1. Less than 1 year
2. 1 but less than 2 years
3. 2 but less than 3 years
4. 3 but less than 4 years
5. 4 but less than 8 years
6. 8 but less than 12 years
7. 12 or more years

121. How long have you been at this station (base)?

1. Less than 1 month
2. 1 but less than 6 months
3. 6 but less than 18 months
4. 18 but less than 36 months
5. 36 but less than 48 months
6. 48 but less than 60 months
7. 60 or more months

122. How long have you been married to your spouse?

1. Less than 1 year
2. 1 but less than 4 years
3. 4 but less than 8 years
4. 8 but less than 12 years
5. 12 but less than 16 years
6. 16 but less than 20 years
7. 20 or more years

123. Where do you live?

1. On the base to which my spouse is assigned
2. On another military installation
3. Off base, renting
4. Off base, buying
5. Off base, other

124. If you live on base, why? (choose single best answer)

0. Not applicable
1. Quality or availability of schools
2. Off base housing of suitable quality too expensive
3. We didn't find suitable quality off base housing
4. Better access to base facilities.
5. We were required to live in base housing
6. Security
7. Other advantages

125. If you live off base, why? (choose single best answer)

0. Not applicable
1. Not eligible for base housing
2. Base housing not available when we wanted it.
3. Investment in housing is part of our financial plan
4. Quality or availability of schools
5. Base housing not meeting needs (space, design, etc.)
6. To get away from the military atmosphere
7. Other advantages

126. Which of the following best describes your ethnic group?

1. American Indian or Alaskan Native
2. Asian or Pacific Islander
3. Black, not of Hispanic origin
4. Hispanic
5. White, not of Hispanic origin
6. Other

127. What is the highest education level you have achieved?

1. Less than high school
2. High school graduate or GED
3. Less than two years college
4. Associate degree or two years or more college
5. Bachelors degree
6. Masters degree
7. Doctoral degree

For items 128 to 130, you should consider the word "children" to include any children who are part of your immediate family. This may include the natural children born to either you or your spouse and any adopted or foster children who are part of your family.

128. How many children do you and your spouse have all together?

- | | |
|---------|---------------|
| 1. None | 5. 4 or 5 |
| 2. 1 | 6. 6, 7, or 8 |
| 3. 2 | 7. 9 or more |
| 4. 3 | |

129. How many children presently live at home?

- | | |
|---------|---------------|
| 1. None | 5. 4 or 5 |
| 2. 1 | 6. 6, 7, or 8 |
| 3. 2 | 7. 9 or more |
| 4. 3 | |

130. What is the age of the youngest child in your and your spouse's family?

- | | |
|---------------------|-----------------------|
| 0. Not applicable | 4. 10 to 12 years old |
| 1. 2 years or less | 5. 13 to 15 years old |
| 2. 3 to 5 years old | 6. 16 to 18 years old |
| 3. 6 to 9 years old | 7. over 18 years old |

131. How many other family members (parents, grandchildren, relatives) live in your home?

- | | |
|---------|---------------|
| 1. None | 5. 4 or 5 |
| 2. 1 | 6. 6, 7, or 8 |
| 3. 2 | 7. 9 or more |
| 4. 3 | |

132. Are you employed in an income producing job?

1. No, do not desire employment
2. No, would like to work but cannot find employment
3. No, desire to work but cannot for other reasons
4. Yes, part time
5. Yes, active military service
6. Yes, federal civil service
7. Yes, other full time employment

133. What is your usual work schedule?

- 0. Not applicable
- 1. Day shift, normally stable hours
- 2. Swing shift (about 4 PM to midnight)
- 3. Mid shift (about midnight to 8 AM)
- 4. Rotating shift schedule
- 5. Day or shift work with irregular/unstable hours
- 6. Variable schedule/on-call status

134. Why do you work?

- 0. Not applicable
- 1. Make use of free time
- 2. Financial necessity
- 3. Earn "extra" money
- 4. Personal or professional fulfillment
- 5. I'd just rather work than be at home
- 6. Maintain or use skills
- 7. Other

135. Are you a student?

- 1. No
- 2. Yes, full time undergraduate
- 3. Yes, part time undergraduate
- 4. Yes, full time graduate
- 5. Yes, part time graduate
- 6. Yes, correspondence courses
- 7. Yes, trade or technical school

136. Do you do volunteer work?

- 1. No
- 2. Yes, on base only
- 3. Yes, off base only
- 4. Yes, on and off base, but mostly on base
- 5. Yes, on and off base, but mostly off base
- 6. Yes, about equal amounts on and off base

137. If you are not involved in volunteer work, why not?

- 1. I am involved in volunteer work
- 2. I am too busy with my job
- 3. I am too busy with school
- 4. I am too busy with my family and home requirements
- 5. I haven't been asked to volunteer
- 6. I haven't found the right kind of volunteer work
- 7. I just don't care to do volunteer work

138. How much time weekly do you spend doing volunteer work?

- 0. Not applicable
- 1. From 1 to 10 hours
- 2. From 10 to 20 hours
- 3. From 20 to 30 hours
- 4. From 30 to 40 hours
- 5. Over 40 hours

139. Regarding wive's clubs on base, I am

- 1. a member of the Officers' Wives' Club
- 2. a member of the NCO Wives' Club
- 3. a male spouse and not eligible for membership in wive's clubs
- 4. a male spouse and don't know whether I am eligible for membership in a wives' club
- 5. not a member of a wives' club because I'm too busy with other things (work, volunteer work, family) to attend wives' functions
- 6. not a member because I am not eligible for membership in either NCO Wives' Club or the Officers' Wives' Club
- 7. not a member of a wives' club because I simply don't care to join one

140. Was either of your parents in the military service?

- 0. Not applicable (neither parent was in military service)
- 1. Yes, but before I was born
- 2. Yes, mostly during my early childhood (age 6 and under)
- 3. Yes, mostly during my middle childhood (age 7 to 12)
- 4. Yes, mostly during my teen years (age 13 to 20)
- 5. Yes, mostly during both my early and middle childhood (from birth to age 12)
- 6. Yes, Mostly during both my middle childhood and teen years (age 7 to 20)
- 7. Yes, mostly during my early childhood through my teen years (birth to age 20)

We would like to again thank you for participating in this survey. Your cooperation and time are sincerely appreciated. Please be assured that your answers are strictly CONFIDENTIAL and will be combined with those of many other respondents.

A blank RESPONDENT COMMENT SHEET has been included in this survey booklet. You are invited to use this sheet to make any comments you may wish to offer regarding this survey or any family issues. Please insert this comment sheet, survey booklet, and your answer sheet in the envelope provided, seal it, and return the envelop to your spouse. Your spouse will return the sealed envelope to the person collecting the surveys in his or her organization.

RESPONDENT COMMENT SHEET

APPENDIX C
REVISED U.S. AIR FORCE FAMILY SURVEY



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Please be sure that you have completed Section 1 of the answer sheet before beginning Section 2.

Please use a #2 pencil and:

- make heavy black marks that fill the desired oval.
- erase cleanly any answer you wish to change.
- make no stray marks of any kind on the answer sheet.
- do not staple, fold, or tear the answer sheet.
- make no marks on the survey booklet.

The answer sheet has ovals for eight possible responses on each item. The first oval is in the column marked "NA" for not applicable. Use this response if the item truly does not apply to your situation. The other response options range from 1 to 7. Respond to items by marking the appropriate oval on the answer sheet as in the following example:

Using the scale below, evaluate the sample statement.

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Sample Statement: I am pleased with the Child Care Center on this base.

If you moderately agree with the sample statement, you would darken oval (6) on the response sheet. If you haven't used the child care center, or if there is no child care center on your base, you would darken the oval in the column marked NA (not applicable).

Sample Response: (NA) (1) (2) (3) (4) (5) (6) (7)

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3. My participation in base, unit, or Air Force activities is essential to help my spouse achieve his or her full promotion potential.
4. I feel I am a part of the Air Force community.
5. An Air Force career has as much prestige and status as other careers.
6. I need to know Air Force customs and courtesies.
7. The Air Force lifestyle offers good conditions for raising children.
8. Air Force leaders are aware of the needs of Air Force families.
9. I am interested in being informed and kept up-to-date on subjects related to the Air Force role and mission.
10. The Air Force tries to make service life more attractive for members and their families.
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17. Being with the Air Force makes it difficult to make friends and socialize.

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29. I believe performance reports (like OER's, APR's, civilian appraisals) are more important to my spouse's promotions than for people in non-Air Force jobs.
30. My spouse has a worthwhile job.
31. I want my spouse to make the Air Force a career.
32. Most "Air Force families" are closer or more cohesive than those outside the Air Force.
33. I would urge my spouse to leave the Air Force rather than accept a transfer (PCS move) that didn't fit in our family plans.
34. Children have a difficult time adjusting to the Air Force lifestyle.
35. To the best of my knowledge, my spouse plans to make the Air Force a career.

NA = Not applicable
1 = Strongly disagree
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36. My spouse's work hours disrupt our family life more than if my spouse had a non-Air Force job.
37. How I feel about my spouse's job is important to him or her.
38. I am proud of my spouse's job.
39. I would be happier if my spouse were doing a similar job outside the Air Force.
40. I would like my spouse to change his or her present job but remain with the Air Force.
41. I believe the pay, allowances, and benefits earned by my spouse are fair for the job he or she does.
42. My spouse has skills that would qualify him or her for a good job outside the Air Force.
43. I am able to pursue my own interests in life, independent of my spouse's activities.
44. In our family, it is OK for the wife to work outside the home even if it isn't an absolute financial necessity.
45. Even if a wife works outside the home, she should still be responsible for running the household.
46. The husband should have the final word in most of the important decisions in our family.
47. Overall, friends in the off-base community are more important to our family than friends in the Air Force community.
48. In our family, everyone goes his or her own way.
49. Our family almost always does things together.
50. When we have serious problems in our family, we usually try to solve them without help from outside sources.

NA = Not applicable
1 = Strongly disagree
2 = Moderately disagree
3 = Slightly disagree

4 = Neither agree nor disagree
5 = Slightly agree
6 = Moderately agree
7 = Strongly agree

- 51. We often have friends over to visit in our home.
- 52. I often make important decisions affecting the family by myself.
- 53. I sometimes feel socially isolated.
- 54. We have found outside agencies (counselors, chaplain, Family Support Center, etc.) can help in solving family problems.
- 55. I decide when to do the things I want to do.
- 56. Our family seeks help from others only as a last resort.
- 57. In general, I am happy with my marriage.
- 58. I am very pleased with the way my spouse and I express affection for each other.
- 59. I wish my spouse and I communicated better with each other.
- 60. My spouse and I agree on most of the major issues of life.
- 61. Taking things all together, I'd say I'm very happy these days.

Items #62 - #98 concern services that may or may not be available to you at your current base. If you don't have access to any of the services, leave responses #62 to #98 blank and go to Item #99. If you have access to some (but not all) of the services, please answer for those you have access to.

For the services listed below (#62 - #79), please indicate how often you or your family use them.

NA = Not available on this base
1 = Not used
2 = Once or twice a year
3 = Every few months

4 = Once or twice a month
5 = Once a week
6 = Several times a week
7 = Daily

- | | |
|------------------------|---|
| 62. Base Exchange | 71. Arts and Crafts Hobby Shop |
| 63. Commissary | 72. Child Care Center |
| 64. Medical care | 73. Gymnasium |
| 65. Open Mess (club) | 74. Family Support Center |
| 66. Recreation Center | 75. Chapel and Chaplains |
| 67. Base Library | 76. Theater |
| 68. Auto Hobby Shop | 77. Youth Center |
| 69. Bowling Center | 78. Base Exchange Cafeteria
or Snack Bar |
| 70. Golf (course/club) | 79. Education Services Center |

For the services listed below (#80 - #98), please indicate your overall level of satisfaction.

NA = Not available or not used
1 = Extremely dissatisfied
2 = Moderately dissatisfied
3 = Slightly dissatisfied

4 = Neither satisfied nor dissatisfied
5 = Slightly satisfied
6 = Moderately satisfied
7 = Extremely satisfied

- | | |
|------------------------|---|
| 80. Base Exchange | 89. Arts and Crafts |
| 81. Commissary | 90. Child Care Center |
| 82. Medical care | 91. Gymnasium |
| 83. Open Mess (club) | 92. Family Support Center |
| 84. Recreation Center | 93. Chapel and Chaplains |
| 85. Base Library | 94. Theater |
| 86. Auto Hobby Shop | 95. Youth Center |
| 87. Bowling Center | 96. Base housing |
| 88. Golf (course/club) | 97. Base Exchange Cafeteria
or Snack Bar |
| | 98. Education Services Center |

Using the responses provided below, please indicate how you think each of the factors listed (#99 - #108) affects your spouse's intention to make the Air Force a career. (For example, if your spouse is satisfied in his or her job, job satisfaction would have a positive impact on your spouse's intention to stay in the Air Force. You might choose 5, 6, or 7 as your response to item 99. On the other hand, if your spouse is not satisfied in his or her job, job satisfaction would have a negative impact. You might then choose 1, 2, or 3 as your response.)

NA = Not applicable

1 = Very negatively

2 = Negatively

3 = Somewhat negatively

4 = Neither positively nor negatively

5 = Somewhat positively

6 = Positively

7 = Very positively

- 99. Job satisfaction
 - 100. Status and prestige
 - 101. Rate of pay
 - 102. Air Force (or civil service) retirement system
 - 103. Patriotism
 - 104. Non-Air Force job opportunities
 - 105. Medical benefits
 - 106. Job security
 - 107. TDY requirements (TDY is "temporary duty" in a location different from the normal duty station. The maximum length of a TDY is 179 days.)
 - 108. Family needs
-

Using the scale below, please indicate how you think each of the factors listed (#109 - #117) affects your family's life. (NOTE: The scale for items #109-#117 is the same as was used in the previous section.)

NA = Not applicable

1 = Very negatively

2 = Negatively

3 = Somewhat negatively

4 = Neither positively nor negatively

5 = Somewhat positively

6 = Positively

7 = Very positively

- 109. My spouse's TDY's
- 110. Career field (Air Force specialty, type of job) of your spouse
- 111. Change in family income due to transfer to present base
- 112. Possibility of future assignment outside continental U.S. (CONUS)
- 113. Convenience of base facilities
- 114. Employment opportunities for me in the local area
- 115. Military exercises and recalls
- 116. Being at our present duty station (base)
- 117. Acceptance by people in the local area

This section (#118 - #140) requests information applicable to you and your spouse. This information is necessary to allow consideration of Air Force-wide issues and is not used to identify individuals.

118. (Frequency of TDY's) My spouse's job requires him/her to be TDY:

NA = Not applicable	4 = 6 to 8 times a year
1 = Less than once a year	5 = 9 to 11 times a year
2 = Once or twice a year	6 = Once or twice a month
3 = 3 to 5 times a year	7 = More than twice a month

119. (Length of TDY's) How long does each TDY usually last?

NA = Not applicable	4 = 15 to 21 days
1 = 3 days or less	5 = 22 to 30 days
2 = 4 to 7 days	6 = More than 30 days
3 = 8 to 14 days	7 = Duration varies greatly

120. How long has your spouse been with the Air Force?

1. Less than 1 year
2. 1 but less than 2 years
3. 2 but less than 3 years
4. 3 but less than 4 years
5. 4 but less than 8 years
6. 8 but less than 12 years
7. 12 or more years

121. How long have you been at this station (base)?

1. Less than 1 month
2. 1 but less than 6 months
3. 6 but less than 18 months
4. 18 but less than 36 months
5. 36 but less than 48 months
6. 48 but less than 60 months
7. 60 or more months

122. How long have you been married to your spouse?

1. Less than 1 year
2. 1 but less than 4 years
3. 4 but less than 8 years
4. 8 but less than 12 years
5. 12 but less than 16 years
6. 16 but less than 20 years
7. 20 or more years

123. Where do you live?

1. On the base to which my spouse is assigned
2. On another military installation
3. Off base, renting
4. Off base, buying
5. Off base, other

124. If you live on base, why? (choose single best answer)

- NA. Not applicable
1. Quality or availability of schools
 2. Off base housing of suitable quality too expensive
 3. We didn't find suitable quality off base housing
 4. Better access to base facilities.
 5. We were required to live in base housing
 6. Security
 7. Other advantages

125. If you live off base, why? (choose single best answer)

- NA. Not applicable
1. Not eligible for base housing
 2. Base housing not available when we wanted it.
 3. Investment in housing is part of our financial plan
 4. Quality or availability of schools
 5. Base housing not meeting needs (space, design, etc.)
 6. To get away from the military atmosphere
 7. Other advantages

126. Which of the following best describes your ethnic group?

1. American Indian or Alaskan Native
2. Asian or Pacific Islander
3. Black, not of Hispanic origin
4. Hispanic
5. White, not of Hispanic origin
6. Other

127. What is the highest education level you have achieved?

1. Less than high school
2. High school graduate or GED
3. Less than two years college
4. Associate degree or two years or more college
5. Bachelors degree
6. Masters degree
7. Doctoral degree

For items 128 to 130, you should consider the word "children" to include any children who are part of your immediate family. This may include the natural children born to either you or your spouse and any adopted or foster children who are part of your family.

128. How many children do you and your spouse have all together?

- | | |
|---------|---------------|
| 1. None | 5. 4 or 5 |
| 2. 1 | 6. 6, 7, or 8 |
| 3. 2 | 7. 9 or more |
| 4. 3 | |

129. How many children presently live at home?

- | | |
|---------|---------------|
| 1. None | 5. 4 or 5 |
| 2. 1 | 6. 6, 7, or 8 |
| 3. 2 | 7. 9 or more |
| 4. 3 | |

130. What is the age of the youngest child in your and your spouse's family?

- | | |
|---------------------|-----------------------|
| NA. Not applicable | 4. 10 to 12 years old |
| 1. 2 years or less | 5. 13 to 15 years old |
| 2. 3 to 5 years old | 6. 16 to 18 years old |
| 3. 6 to 9 years old | 7. over 18 years old |

131. How many other family members (grandchildren, relatives, etc.) live in your home?

- | | |
|---------|---------------|
| 1. None | 5. 4 or 5 |
| 2. 1 | 6. 6, 7, or 8 |
| 3. 2 | 7. 9 or more |
| 4. 3 | |

132. Are you employed in an income-producing job?

1. No, do not desire employment
2. No, would like to work but cannot find employment
3. No, desire to work but cannot for other reasons
4. Yes, part time
5. Yes, active military service
6. Yes, federal civil service
7. Yes, other full time employment

133. What is your usual work schedule?

NA. Not applicable

1. Day shift, normally stable hours
2. Swing shift (about 4 PM to midnight)
3. Mid shift (about midnight to 8 AM)
4. Rotating shift schedule
5. Day or shift work with irregular/unstable hours
6. Variable schedule/on-call status

134. Why do you work? (choose single best answer)

NA. Not applicable

1. Make use of free time
2. Financial necessity
3. Earn "extra" money
4. Personal or professional fulfillment
5. I'd just rather work than be at home
6. Maintain or use skills
7. Other

135. Are you a student?

1. No
2. Yes, full time undergraduate
3. Yes, part time undergraduate
4. Yes, full time graduate
5. Yes, part time graduate
6. Yes, correspondence courses
7. Yes, trade or technical school

136. Do you do volunteer work?

1. No
2. Yes, on base only
3. Yes, off base only
4. Yes, on and off base, but mostly on base
5. Yes, on and off base, but mostly off base
6. Yes, about equal amounts on and off base

137. If you are not involved in volunteer work, why not?

1. I am involved in volunteer work
2. I am too busy with my job
3. I am too busy with school
4. I am too busy with my family and home requirements
5. I haven't been asked to volunteer
6. I haven't found the right kind of volunteer work
7. I just don't care to do volunteer work

138. How much time weekly do you spend doing volunteer work?

NA. Not applicable

1. From 1 to 10 hours
2. From 10 to 20 hours
3. From 20 to 30 hours
4. From 30 to 40 hours
5. Over 40 hours

139. Regarding wife's clubs on base, I am

1. a member of the Officers' Wives' Club
2. a member of the NCO Wives' Club
3. a male spouse and not eligible for membership in wives' clubs
4. a male spouse and don't know whether I am eligible for membership in a wives' club
5. not a member of a wives' club because I'm too busy with other things (work, volunteer work, family) to attend wives' functions
6. not a member because I am not eligible for membership in either NCO Wives' Club or the Officers' Wives' Club
7. not a member of a wives' club because I simply don't care to join one

140. Was either of your parents in the military service?

NA. Not applicable (neither parent was in military service)

1. Yes, but before I was born
2. Yes, mostly during my early childhood (age 6 and under)
3. Yes, mostly during my middle childhood (age 7 to 12)
4. Yes, mostly during my teen years (age 13 to 20)
5. Yes, mostly during both my early and middle childhood (from birth to age 12)
6. Yes, Mostly during both my middle childhood and teen years (age 7 to 20)
7. Yes, mostly during my early childhood through my teen years (birth to age 20)

We would like to again thank you for participating in this survey. Your cooperation and time are sincerely appreciated. Please be assured that your answers are strictly CONFIDENTIAL and will be combined with those of many other respondents.

A blank RESPONDENT COMMENT SHEET has been included in this survey booklet. You are invited to use this sheet to make any comments you may wish to offer regarding this survey or any family issues. Please insert this comment sheet, survey booklet, and your answer sheet in the envelope provided, seal it, and return the envelope to your spouse. Your spouse will return the sealed envelope to the person collecting the surveys in his or her organization.

APPENDIX D
FREQUENCIES OF ITEM RESPONSES

ITEM	0	1	2	3	4	5	6	7	8
1:	0	0	1	1	2	4	12	24	0
2:	0	0	1	0	4	10	12	17	0
3:	0	5	0	3	11	9	8	6	2
4:	0	0	2	1	0	7	12	22	0
5:	0	0	1	2	5	11	9	16	0
6:	0	3	1	3	3	7	11	16	0
7:	3	1	3	4	3	14	11	5	0
8:	1	6	3	7	1	16	9	1	0
9:	0	0	2	0	0	5	8	29	0
10:	0	2	1	10	5	10	9	7	0
11:	0	1	1	1	4	3	5	29	0
12:	7	2	2	1	7	2	5	17	1
13:	1	4	0	4	8	7	8	12	0
14:	0	1	2	2	5	8	8	16	2
15:	0	3	2	2	2	5	11	19	0
16:	0	5	3	1	7	8	8	12	0
17:	0	25	7	3	0	4	3	2	0
18:	0	0	0	0	3	3	9	29	0
19:	0	12	8	6	13	0	2	3	0
20:	0	1	0	1	2	3	9	28	0
21:	4	8	6	7	11	5	2	1	0
22:	2	4	5	1	6	7	9	10	0
23:	0	5	6	6	6	11	9	1	0
24:	1	4	3	5	7	6	8	10	0
25:	0	1	0	2	2	7	10	22	0
26:	2	0	0	1	11	6	11	12	1
27:	0	5	3	2	10	14	5	5	0
28:	0	1	2	4	5	8	10	13	1
29:	1	2	0	2	3	6	9	20	1
30:	1	0	0	1	2	3	7	30	0
31:	1	0	1	1	7	2	6	26	0
32:	0	0	1	4	19	8	4	8	0
33:	0	16	8	9	4	2	1	3	1
34:	5	5	6	5	11	7	0	4	1
35:	1	0	1	1	0	1	5	31	4
36:	2	10	3	4	7	5	6	7	0
37:	0	0	0	0	2	8	9	25	0
38:	0	0	0	1	0	3	6	34	0
39:	2	16	3	7	8	3	2	3	0
40:	2	16	3	3	8	2	3	6	1
41:	0	13	3	6	2	7	8	5	0
42:	0	0	0	1	1	3	7	32	0
43:	0	1	1	3	1	9	13	16	0
44:	1	1	0	2	1	5	5	29	0
45:	0	12	4	8	4	6	3	7	0
46:	0	15	3	6	3	3	8	6	0
47:	0	10	10	5	14	2	3	0	0
48:	1	14	7	5	5	5	4	3	0
49:	0	0	6	2	5	4	10	17	0
50:	0	1	1	0	0	3	11	28	0

ITEM	0	1	2	3	4	5	6	7	8
51:	0	1	3	1	2	8	12	17	0
52:	0	7	6	3	3	7	12	6	0
53:	0	5	8	6	6	7	7	5	0
54:	9	7	3	1	16	2	2	4	0
55:	1	18	7	2	5	4	2	4	1
56:	4	3	3	3	7	5	6	13	0
57:	0	1	0	1	1	2	7	32	0
58:	0	0	1	3	3	1	14	22	0
59:	1	9	2	2	3	10	8	9	0
60:	0	1	0	0	0	7	13	23	0
61:	0	0	0	0	1	8	9	26	0
62:	0	0	0	0	4	23	15	2	0
63:	0	0	0	0	9	26	7	2	0
64:	0	3	7	21	9	1	1	1	1
65:	0	14	5	3	14	5	2	0	1
66:	1	18	12	7	1	1	3	0	1
67:	0	6	3	11	12	5	5	1	1
68:	0	28	10	3	2	0	0	0	1
69:	0	21	8	4	2	8	0	0	1
70:	2	30	3	3	3	0	1	1	1
71:	0	29	11	2	0	0	1	0	1
72:	0	34	1	1	0	3	3	1	1
73:	0	18	5	0	2	5	10	2	2
74:	1	32	7	1	1	1	0	0	1
75:	0	19	2	3	2	12	6	0	0
76:	0	17	2	7	13	2	2	0	1
77:	1	33	3	0	3	1	0	2	1
78:	6	17	5	7	5	1	2	0	1
79:	1	27	7	1	2	1	2	2	1
80:	0	2	3	9	1	3	21	4	1
81:	0	2	2	3	1	8	19	8	1
82:	2	4	6	1	2	10	14	4	1
83:	12	2	3	4	5	8	7	1	2
84:	18	1	1	0	11	5	5	1	2
85:	7	1	0	2	7	6	12	7	2
86:	24	2	0	0	7	3	4	2	2
87:	19	2	1	1	4	5	8	2	2
88:	21	1	0	0	8	2	8	1	3
89:	25	3	1	0	6	3	3	1	2
90:	27	3	0	2	5	1	3	1	2
91:	15	2	0	1	8	8	5	3	2
92:	24	1	0	0	6	1	7	3	2
93:	15	1	0	1	6	3	10	7	1
94:	14	1	0	3	7	7	9	1	2
95:	28	1	0	1	3	1	6	2	2
96:	12	2	2	2	3	7	12	3	1
97:	19	0	2	1	7	4	5	4	2
98:	22	0	0	0	7	1	6	6	2
99:	0	0	1	1	1	5	12	22	2
100:	0	0	0	0	10	8	15	9	2

ITEM	0	1	2	3	4	5	6	7	8
101:	0	1	0	4	4	9	16	8	2
102:	0	0	0	1	5	8	13	15	2
103:	0	0	0	0	2	10	9	20	3
104:	0	1	1	4	15	9	7	5	2
105:	0	2	3	1	4	5	10	16	3
106:	0	0	0	1	3	3	17	18	2
107:	2	2	2	10	14	5	6	1	2
108:	1	0	0	2	8	6	13	12	2
109:	6	0	4	12	10	4	5	2	1
110:	0	0	0	3	10	9	12	9	1
111:	3	2	2	6	14	7	6	3	1
112:	2	2	1	6	10	5	9	8	1
113:	1	0	0	2	6	10	7	16	2
114:	7	6	3	1	8	6	8	4	1
115:	3	1	2	5	24	4	3	1	1
116:	1	1	0	5	10	7	13	6	1
117:	0	1	0	0	13	9	11	9	1
118:	7	6	10	8	6	1	2	2	2
119:	8	5	10	7	2	1	2	6	3
120:	0	1	0	2	1	10	6	22	2
121:	0	4	9	5	7	2	6	10	1
122:	0	4	1	11	6	6	3	12	1
123:	0	22	1	11	8	1	0	0	1
124:	20	1	6	0	6	2	5	3	1
125:	22	4	1	4	4	4	2	1	2
126:	0	1	1	2	1	35	3	0	1
127:	0	1	11	13	7	6	4	0	2
128:	0	8	9	17	3	4	0	0	3
129:	0	15	6	15	3	1	0	1	3
130:	6	9	7	6	2	2	1	8	3
131:	2	36	1	1	1	1	0	0	2
132:	1	14	5	9	9	0	2	2	2
133:	25	9	2	0	2	0	1	0	5
134:	24	3	3	6	3	1	0	1	3
135:	8	26	2	2	1	1	1	1	2
136:	4	11	11	3	4	4	5	0	2
137:	4	21	3	4	5	1	2	1	3
138:	13	19	7	0	1	1	0	1	2
139:	1	16	13	0	1	5	1	5	2
140:	24	12	2	0	0	0	0	4	2

APPENDIX E
INTER-ITEM CORRELATIONS

	1	2	3	4	5	6	7	8	9	10
1	1.00	.03	.25	.42	.17	.28	.01	-.03	.18	.10
2	.03	1.00	.04	.43	.23	-.03	.51	.26	.00	.37
3	.25	.04	1.00	.14	.27	.01	.03	.14	-.05	.17
4	.42	.43	.14	1.00	.21	.29	.22	.22	.26	.27
5	.17	.23	.27	.21	1.00	.11	.24	.33	.18	.42
6	.28	-.03	.01	.29	.11	1.00	.17	.40	-.02	.10
7	.01	.51	.03	.22	.24	.17	1.00	.34	.12	.55
8	-.03	.26	.14	.22	.33	.40	.34	1.00	.17	.56
9	.18	.00	-.05	.26	.18	-.02	.12	.17	1.00	.28
10	.10	.37	.17	.27	.42	.10	.55	.56	.28	1.00
11	.08	-.08	.15	.18	.22	.05	.16	-.17	.39	.07
12	.02	-.17	.07	.00	-.02	-.13	-.14	-.29	.05	-.16
13	-.25	-.06	.09	-.20	-.05	-.06	.13	.01	-.05	.14
14	.24	-.25	-.36	-.08	-.11	-.08	-.03	-.39	.04	-.31
15	.22	.04	.42	.38	.43	.20	.17	.23	.15	.02
16	.20	-.24	.13	.16	-.01	-.01	-.21	-.09	.40	.01
17	-.38	-.32	-.13	-.39	-.33	-.03	-.11	.09	-.19	.01
18	.24	.34	.09	.15	.50	.01	.15	.21	-.01	.39
19	-.31	-.10	-.13	-.31	-.26	-.43	-.38	-.36	-.16	-.31
20	.13	-.02	-.06	.36	.17	.40	-.04	.29	.14	-.02
21	-.08	-.10	-.17	-.14	-.24	-.20	-.41	-.15	-.25	-.25
22	.00	-.03	.04	-.07	-.25	-.22	-.15	-.20	-.16	-.19
23	.14	.30	-.11	.26	.20	.35	.31	.59	.15	.49
24	-.10	.01	-.29	-.16	-.20	.03	.14	-.07	.03	.11
25	.16	-.01	-.04	-.08	.10	.32	-.07	.05	-.04	.00
26	.09	.66	-.02	.29	.35	.12	.44	.36	-.08	.35
27	-.14	-.35	-.12	-.24	-.13	.18	-.25	.11	.13	-.03
28	-.02	.08	-.03	-.02	.24	-.16	-.13	-.11	.24	.15
29	.13	.08	-.19	-.13	.11	.15	-.05	-.05	.06	.09
30	.07	.24	.21	.16	.44	.08	.21	.16	.02	.05
31	.31	.08	.29	-.02	.35	-.05	.06	.18	-.09	.08
32	.02	.18	.16	.03	.26	-.09	.05	.15	-.21	.08
33	-.45	-.17	-.33	-.38	-.32	-.21	-.04	-.07	.05	-.03
34	-.11	-.09	.11	-.34	-.16	-.29	-.18	-.54	-.27	-.47
35	.44	-.06	.37	-.04	.30	-.09	.02	-.04	-.09	-.03
36	.06	-.29	-.02	-.08	-.24	.00	-.21	-.26	.00	-.26
37	.03	.35	-.09	.21	.29	-.01	.19	-.07	.26	.27
38	-.09	.15	-.08	-.01	.23	.08	-.02	.18	-.03	-.06
39	-.43	-.26	-.32	-.33	-.41	-.24	-.37	-.48	-.36	-.53
40	.01	.20	.10	.11	.02	-.20	.14	.30	.07	.30
41	-.03	.25	.12	.14	.30	-.01	.25	.28	.04	.48
42	.53	.02	.22	.34	.35	.11	.28	.01	.42	.09
43	-.05	.03	.00	-.05	.26	-.16	-.02	.08	-.07	.03
44	-.03	-.10	-.15	.10	.24	.06	.27	-.03	.13	-.04
45	-.07	.31	.21	.05	.08	-.16	.26	.11	-.07	.05
46	-.15	.09	.21	-.09	-.03	-.26	-.10	.12	-.02	.12
47	-.21	.01	-.13	-.29	-.21	-.20	-.14	.07	-.37	.03
48	-.08	-.23	.12	-.30	-.06	-.34	.18	-.04	.06	.18
49	-.30	.12	.04	-.07	-.03	-.38	-.26	-.25	.00	-.06
50	.30	-.02	.00	-.23	-.12	.50	.04	-.02	-.16	-.05

	11	12	13	14	15	16	17	18	19	20
1	.08	.02	-.25	.24	.22	.20	-.38	.24	-.31	.13
2	-.08	-.17	-.06	-.25	.04	-.24	-.32	.34	-.10	-.02
3	.15	.07	.09	-.36	.42	.13	-.13	.09	-.13	-.06
4	.18	.00	-.20	-.08	.38	.16	-.39	.15	-.31	.36
5	.22	-.02	-.05	-.11	.43	-.01	-.33	.50	-.26	.17
6	.05	-.13	-.06	-.08	.20	-.01	-.03	.01	-.43	.40
7	.16	-.14	.13	-.03	.17	-.21	-.11	.15	-.38	-.04
8	-.17	-.29	.01	-.39	.23	-.09	.09	.21	-.36	.29
9	.39	.05	-.05	.04	.15	.40	-.19	-.01	-.16	.14
10	.07	-.16	.14	-.31	.02	.01	.01	.39	-.31	-.02
11	1.00	.50	.23	-.05	.16	.08	-.21	.02	-.08	.20
12	.50	1.00	.09	.06	.02	.04	.01	-.06	.07	-.04
13	.23	.09	1.00	-.08	.15	-.02	.15	-.03	-.04	.04
14	-.05	.06	-.08	1.00	-.11	.20	-.12	-.02	.01	.07
15	.16	.02	.15	-.11	1.00	.13	-.39	.08	-.25	.22
16	.08	.04	-.02	.20	.13	1.00	-.11	-.09	.05	.02
17	-.21	.01	.15	-.12	-.39	-.11	1.00	-.45	.12	-.07
18	.02	-.06	-.03	-.02	.08	-.09	-.45	1.00	-.18	.14
19	-.08	.07	-.04	.01	-.25	.05	.12	-.18	1.00	-.33
20	.20	-.04	.04	.07	.22	.02	-.07	.14	-.33	1.00
21	-.34	.09	.03	-.06	-.01	-.13	.10	-.22	.39	.02
22	-.03	.14	.19	-.05	.15	.10	.03	-.11	-.16	.02
23	-.27	-.42	-.20	-.26	.08	-.16	.05	.18	-.20	.05
24	-.03	.19	-.07	.17	-.20	-.10	.32	-.13	.02	-.15
25	.08	-.08	-.01	.02	.05	.09	.03	.17	.12	.32
26	-.02	.05	.00	-.12	.22	-.23	-.21	.36	-.29	.14
27	.07	.13	.23	-.04	-.11	.33	.36	-.20	.09	.02
28	.17	.13	.01	.18	-.15	.00	-.18	.39	.05	.12
29	-.01	-.05	.14	.17	-.12	.05	.07	.27	.03	-.01
30	-.01	-.10	-.04	-.03	.66	.10	-.50	.42	-.10	.06
31	-.09	-.14	.15	-.02	.49	.00	-.41	.49	.00	.00
32	-.19	-.18	.03	.07	.11	-.36	-.11	.30	-.20	.30
33	-.07	.04	.19	.04	-.38	.07	.32	-.27	.37	-.30
34	.05	.14	.02	.11	.08	-.17	.10	-.13	.29	-.17
35	-.05	-.18	.15	.04	.47	.16	-.45	.20	.04	-.14
36	.06	.30	-.03	.05	-.15	.22	.18	-.33	.07	-.15
37	.39	.14	.34	.17	.12	-.12	-.32	.28	-.14	.32
38	-.02	-.18	.14	-.02	.39	.11	-.31	.17	.03	.38
39	-.18	.08	.08	.16	-.36	.05	.29	-.44	.35	-.10
40	-.09	.17	-.03	-.07	-.19	.10	.22	.09	-.15	-.16
41	-.15	-.32	-.23	-.17	.02	-.12	.04	.25	-.05	-.03
42	.44	.30	-.01	.27	.35	.31	-.30	.09	-.44	.24
43	.06	.18	.12	-.15	.22	-.08	-.21	.44	-.05	.09
44	.38	.39	.14	.23	.30	-.10	-.12	.16	-.04	.20
45	.12	.02	-.02	-.11	.03	-.31	.00	.15	-.13	-.05
46	-.12	-.37	.09	-.20	-.11	-.04	.06	-.02	.13	-.36
47	-.26	.01	.09	-.14	-.30	-.14	.42	-.03	.33	-.38
48	-.11	.02	-.07	.10	-.17	.19	.23	-.10	.03	-.53
49	.14	.28	.21	-.35	-.13	-.13	.02	-.01	.19	-.30
50	-.11	.00	-.05	.05	-.18	-.13	.01	.08	-.04	-.17

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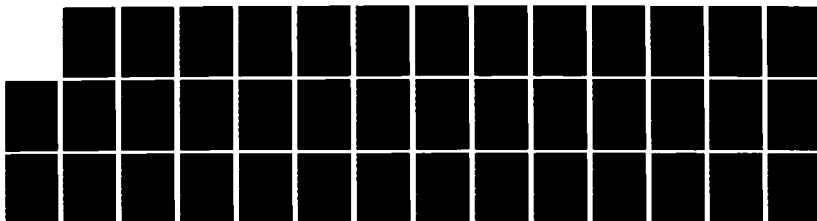
USAF FAMILY SURVEY: A REVISION OF THE USAF SPOUSE
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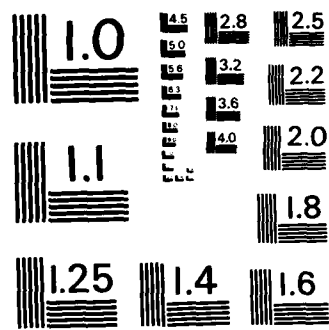
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END

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

	21	22	23	24	25	26	27	28	29	30
1	-.08	.00	.14	-.10	.16	.09	-.14	-.02	.13	.07
2	-.10	-.03	.30	.01	-.01	.66	-.35	.08	.08	.24
3	-.17	.04	-.11	-.29	-.04	-.02	-.12	-.03	-.19	.21
4	-.14	-.07	.26	-.16	-.08	.29	-.24	-.02	-.13	.16
5	-.24	-.25	.20	-.20	.10	.35	-.13	.24	.11	.44
6	-.20	-.22	.35	.03	.32	.12	.18	-.16	.15	.08
7	-.41	-.15	.31	.14	-.07	.44	-.25	-.13	-.05	.21
8	-.15	-.20	.59	-.07	.05	.36	.11	-.11	-.05	.16
9	-.25	-.16	.15	.03	-.04	-.08	.13	.24	.06	.02
10	-.25	-.19	.49	.11	.00	.35	-.03	.15	.09	.05
11	-.34	-.03	-.27	-.03	.08	-.02	.07	.17	-.01	-.01
12	.09	.14	-.42	.19	-.08	.05	.13	.13	-.05	-.10
13	.03	.19	-.20	-.07	-.01	.00	.23	.01	.14	-.04
14	-.06	-.05	-.26	.17	.02	-.12	-.04	.18	.17	-.03
15	-.01	.15	.08	-.20	.05	.22	-.11	-.15	-.12	.66
16	-.13	.10	-.16	-.10	.09	-.23	.33	.00	.05	.10
17	.10	.03	.05	.32	.03	-.21	.36	-.18	.07	-.50
18	-.22	-.11	.18	-.13	.17	.36	-.20	.39	.27	.42
19	.39	-.16	-.20	.02	.12	-.29	.09	.05	.03	-.10
20	.02	.02	.05	-.15	.32	.14	.02	.12	-.01	.06
21	1.00	.33	.02	.02	.12	-.11	.25	-.12	.24	-.20
22	.33	1.00	-.23	-.08	-.22	-.04	.13	-.07	-.02	.07
23	.02	-.23	1.00	.17	.28	.14	.07	-.17	.16	.12
24	.02	-.08	.17	1.00	.32	.10	.16	.14	.25	.02
25	.12	-.22	.28	.32	1.00	.07	.24	.16	.33	.26
26	-.11	-.04	.14	.10	.07	1.00	-.34	-.12	-.03	.35
27	.25	.13	.07	.16	.24	-.34	1.00	.08	.33	-.21
28	-.12	-.07	-.17	.14	.16	-.12	.08	1.00	.47	.06
29	.24	-.02	.16	.25	.33	-.03	.33	.47	1.00	-.17
30	-.20	.07	.12	.02	.26	.35	-.21	.06	-.17	1.00
31	-.03	.09	.13	-.22	.01	.18	-.24	-.03	.05	.54
32	.07	.15	-.01	.03	.08	.25	-.31	.29	-.10	.18
33	.47	-.03	.00	.03	.00	-.12	.45	-.10	.13	-.37
34	.39	.20	-.21	-.03	.13	-.23	.11	-.08	.02	-.01
35	-.02	.12	-.11	-.22	.00	-.04	-.27	-.14	-.06	.50
36	.25	.32	-.21	.11	-.10	-.22	.38	-.01	.27	-.20
37	.03	-.03	-.14	.08	.05	.28	-.15	.46	.33	.09
38	-.05	.12	-.01	-.03	.36	.27	-.12	.07	-.11	.63
39	.33	.07	-.36	.18	.11	-.16	.18	-.15	-.08	-.27
40	.06	.07	.03	.16	-.26	.27	.24	.14	.22	-.27
41	-.11	-.23	.43	.00	-.05	.12	-.30	.12	.02	.04
42	-.25	-.04	-.13	-.03	.04	.07	-.10	.06	-.02	.09
43	.09	.04	-.11	-.05	.10	.18	-.27	.35	.19	.35
44	-.18	-.26	-.11	.35	.11	.16	-.15	.05	-.08	.22
45	-.05	-.08	-.08	-.02	-.13	.09	-.23	-.06	.14	-.03
46	.07	-.09	-.04	-.23	-.29	-.11	.00	-.01	.17	-.18
47	.50	-.08	.16	.13	.12	-.04	.35	-.19	.26	-.32
48	-.05	-.04	-.09	.06	-.38	-.05	.10	-.18	-.15	-.14
49	.14	.29	-.23	-.18	-.29	-.22	.02	.07	.02	-.22
50	-.06	-.23	.18	.13	.33	-.11	.10	.01	.37	-.12

	31	32	33	34	35	36	37	38	39	40
1	.31	.02	-.45	-.11	.44	.06	.03	-.09	-.43	.01
2	.08	.18	-.17	-.09	-.06	-.29	.35	.15	-.26	.20
3	.29	.16	-.33	.11	.37	-.02	-.09	-.08	-.32	.10
4	-.02	.03	-.38	-.34	-.04	-.08	.21	-.01	-.33	.11
5	.35	.26	-.32	-.16	.30	-.24	.29	.23	-.41	.02
6	-.05	-.09	-.21	-.29	-.09	.00	-.01	.08	-.24	-.20
7	.06	.05	-.04	-.18	.02	-.21	.19	-.02	-.37	.14
8	.18	.15	-.07	-.54	-.04	-.26	-.07	.18	-.48	.30
9	-.09	-.21	.05	-.27	-.09	.00	.26	-.03	-.36	.07
10	.08	.08	-.03	-.47	-.03	-.26	.27	-.06	-.53	.30
11	-.09	-.19	-.07	.05	-.05	.06	.39	-.02	-.18	-.09
12	-.14	-.18	.04	.14	-.18	.30	.14	-.18	.08	.17
13	.15	.03	.19	.02	.15	-.03	.34	.14	.08	-.03
14	-.02	.07	.04	.11	.04	.05	.17	-.02	.16	-.07
15	.49	.11	-.38	.08	.47	-.15	.12	.39	-.36	-.19
16	.00	-.36	.07	-.17	.16	.22	-.12	.11	.05	.10
17	-.41	-.11	.32	.10	-.45	.18	-.32	-.31	.29	.22
18	.49	.30	-.27	-.13	.20	-.33	.28	.17	-.44	.09
19	.00	-.20	.37	.29	.04	.07	-.14	.03	.35	-.15
20	.00	.30	-.30	-.17	-.14	-.15	.32	.38	-.10	-.16
21	-.03	.07	.47	.39	-.02	.25	.03	-.05	.33	.06
22	.09	.15	-.03	.20	.12	.32	-.03	.12	.07	.07
23	.13	-.01	.00	-.21	-.11	-.21	-.14	-.01	-.36	.03
24	-.22	.03	.03	-.03	-.22	.11	.08	-.03	.18	.16
25	.01	.08	.00	.13	.00	-.10	.05	.36	.11	-.26
26	.18	.25	-.12	-.23	-.04	-.22	.28	.27	-.16	.27
27	-.24	-.31	.45	.11	-.27	.38	-.15	-.12	.18	.24
28	-.03	.29	-.10	-.08	-.14	-.01	.46	.07	-.15	.14
29	.05	-.10	.13	.02	-.06	.27	.33	-.11	-.08	.22
30	.54	.18	-.37	-.01	.50	-.20	.09	.63	-.27	-.27
31	1.00	.26	-.38	-.07	.74	-.29	.02	.42	-.47	-.16
32	.26	1.00	-.30	.01	.14	-.34	.20	.29	-.09	.05
33	-.38	-.30	1.00	.34	-.45	.11	-.08	-.35	.41	.15
34	-.07	.01	.34	1.00	-.12	.00	-.05	-.17	.35	-.14
35	.74	.14	-.45	-.12	1.00	.01	-.07	.45	-.27	-.25
36	-.29	-.34	.11	.00	.01	1.00	-.25	-.21	.30	.29
37	.02	.20	-.08	-.05	-.07	-.25	1.00	.21	-.15	-.03
38	.42	.29	-.35	-.17	.45	-.21	.21	1.00	.04	-.35
39	-.47	-.09	.41	.35	-.27	.30	-.15	.04	1.00	-.09
40	-.16	.05	.15	-.14	-.25	.29	-.03	-.35	-.09	1.00
41	.13	.13	-.14	-.16	-.11	-.37	-.06	-.19	-.45	.21
42	.16	.01	-.30	-.04	.28	-.10	.19	-.04	-.30	.03
43	.36	.27	-.15	-.15	.17	-.19	.18	.28	-.19	.04
44	.18	.10	-.21	.02	.09	-.25	.24	.17	-.05	.09
45	.02	.12	-.08	.13	.01	.00	-.02	-.21	-.23	.23
46	-.01	-.08	.23	-.05	.10	.14	-.12	-.21	.02	.16
47	-.16	-.22	.59	.38	-.26	.06	-.22	-.34	.30	.44
48	.06	-.29	.36	.04	.09	.14	-.38	-.43	.01	.38
49	-.26	-.12	.16	.35	-.24	.13	.11	-.27	.10	.09
50	.03	-.07	.08	.15	.03	-.06	-.14	-.17	-.13	-.13

	41	42	43	44	45	46	47	48	49	50
1	-.03	.53	-.05	-.03	-.07	-.15	-.21	-.08	-.30	.30
2	.25	.02	.03	-.10	.31	.09	.01	-.23	.12	-.02
3	.12	.22	.00	-.15	.21	.21	-.13	.12	.04	.00
4	.14	.34	-.05	.10	.05	-.09	-.29	-.30	-.07	-.23
5	.30	.35	.26	.24	.08	-.03	-.21	-.06	-.03	-.12
6	-.01	.11	-.16	.06	-.16	-.26	-.20	-.34	-.38	.50
7	.25	.28	-.02	.27	.26	-.10	-.14	.18	-.26	.04
8	.28	.01	.08	-.03	.11	.12	.07	-.04	-.25	-.02
9	.04	.42	-.07	.13	-.07	-.02	-.37	.06	.00	-.16
10	.48	.09	.03	-.04	.05	.12	.03	.18	-.06	-.05
11	-.15	.44	.06	.38	.12	-.12	-.26	-.11	.14	-.11
12	-.32	.30	.18	.39	.02	-.37	.01	.02	.28	.00
13	-.23	-.01	.12	.14	-.02	.09	.09	-.07	.21	-.05
14	-.17	.27	-.15	.23	-.11	-.20	-.14	.10	-.35	.05
15	.02	.35	.22	.30	.03	-.11	-.30	-.17	-.13	-.18
16	-.12	.31	-.08	-.10	-.31	-.04	-.14	.19	-.13	-.13
17	.04	-.30	-.21	-.12	.00	.06	.42	.23	.02	.01
18	.25	.09	.44	.16	.15	-.02	-.03	-.10	-.01	.08
19	-.05	-.44	-.05	-.04	-.13	.13	.33	.03	.19	-.04
20	-.03	.24	.09	.20	-.05	-.36	-.38	-.53	-.30	-.17
21	-.11	-.25	.09	-.18	-.05	.07	.50	-.05	.14	-.06
22	-.23	-.04	.04	-.26	-.08	-.09	-.08	-.04	.29	-.23
23	.43	-.13	-.11	-.11	-.08	-.04	.16	-.09	-.23	.18
24	.00	-.03	-.05	.35	-.02	-.23	.13	.06	-.18	.13
25	-.05	.04	.10	.11	-.13	-.29	.12	-.38	-.29	.33
26	.12	.07	.18	.16	.09	-.11	-.04	-.05	-.22	-.11
27	-.30	-.10	-.27	-.15	-.23	.00	.35	.10	.02	.10
28	.12	.06	.35	.05	-.06	-.01	-.19	-.18	.07	.01
29	.02	-.02	.19	-.08	.14	.17	.26	-.15	.02	.37
30	.04	.09	.35	.22	-.03	-.18	-.32	-.14	-.22	-.12
31	.13	.16	.36	.18	.02	-.01	-.16	.06	-.26	.03
32	.13	.01	.27	.10	.12	-.08	-.22	-.29	-.12	-.07
33	-.14	-.30	-.15	-.21	-.08	.23	.59	.36	.16	.08
34	-.16	-.04	-.15	.02	.13	-.05	.38	.04	.35	.15
35	-.11	.28	.17	.09	.01	.10	-.26	.09	-.24	.03
36	-.37	-.10	-.19	-.25	.00	.14	.06	.14	.13	-.06
37	-.06	.19	.18	.24	-.02	-.12	-.22	-.38	.11	-.14
38	-.19	-.04	.28	.17	-.21	-.21	-.34	-.43	-.27	-.17
39	-.45	-.30	-.19	-.05	-.23	.02	.30	.01	.10	-.13
40	.21	.03	.04	-.09	.23	.16	.44	.38	.09	-.13
41	1.00	-.07	.14	-.03	.21	.12	.08	.24	-.07	.00
42	-.07	1.00	.16	.42	.15	-.17	-.28	.08	-.18	.01
43	.14	.16	1.00	.36	.25	.02	-.01	-.17	.04	-.08
44	-.03	.42	.36	1.00	.11	-.39	-.12	-.04	-.14	-.10
45	.21	.15	.25	.11	1.00	.53	.16	.02	.23	.04
46	.12	-.17	.02	-.39	.53	1.00	.30	.21	.25	-.04
47	.08	-.28	-.01	-.12	.16	.30	1.00	.29	.21	.16
48	.24	.08	-.17	-.04	.02	.21	.29	1.00	-.16	-.15
49	-.07	-.18	.04	-.14	.23	.25	.21	-.16	1.00	-.10
50	.00	.01	-.08	-.10	.04	-.04	.16	-.15	-.10	1.00

	51	52	53	54	55	56	57	58	59	60
1	.24	.08	.19	.01	-.17	.14	.00	-.18	.00	.21
2	.22	-.02	-.27	.02	.03	.09	.28	.20	-.22	.02
3	-.20	-.12	.03	-.24	.02	.10	-.11	-.28	.17	.11
4	.55	-.16	-.18	.23	.13	-.13	.23	.05	-.10	.15
5	.18	-.09	-.30	-.02	-.05	-.16	.01	.10	-.10	.06
6	.25	-.31	.12	.38	-.34	-.06	.05	-.18	-.03	.23
7	-.06	-.02	.00	.01	.05	.30	.00	-.06	-.28	.07
8	.16	-.06	-.04	.13	.01	-.02	-.09	-.11	-.01	.06
9	.33	-.08	-.09	.31	-.14	.06	.01	.25	-.14	.16
10	.07	.12	.13	.05	.07	.24	.16	.05	-.16	.17
11	-.02	-.33	.04	.28	.07	-.09	.18	.09	-.06	.32
12	-.05	-.09	-.06	-.07	.22	-.29	.11	-.01	.13	.09
13	-.29	.08	.16	.24	.39	.15	.33	-.03	-.10	.39
14	-.03	.14	-.06	.11	.07	.05	-.09	-.06	.01	-.02
15	.11	-.10	-.27	.03	.12	-.12	-.05	-.21	-.06	.03
16	.18	-.28	.08	.26	-.06	-.21	-.18	-.21	.27	.10
17	-.06	.00	.27	.13	.08	.14	-.21	-.23	.28	-.08
18	-.04	.28	-.05	-.16	-.13	.03	.08	.12	-.05	.07
19	-.08	.06	-.11	-.15	-.03	-.05	-.02	.02	.27	-.19
20	.30	-.32	-.05	.33	.17	.05	.21	-.10	.10	.49
21	.09	.15	.05	.09	.28	-.02	.01	-.04	.28	-.16
22	-.04	-.01	.22	.09	.41	.10	.02	-.03	.02	.03
23	.30	.20	-.05	.26	-.19	-.09	-.12	-.02	.00	-.17
24	.05	.13	.07	.11	.06	.21	-.01	.02	.02	-.11
25	.07	-.09	.12	.32	-.12	-.03	.13	-.11	.22	.29
26	-.14	-.05	-.21	-.01	.10	.17	.32	-.03	-.18	.28
27	.05	-.12	.41	.37	.00	-.11	-.16	-.20	.46	-.11
28	.11	.12	-.10	.06	.06	.04	.01	.17	-.06	.10
29	.25	.14	-.06	.27	-.15	.09	-.11	-.07	.15	-.07
30	-.05	.01	-.21	-.09	.01	-.11	-.04	-.04	-.24	-.02
31	-.17	.33	-.12	-.27	-.09	.09	-.12	-.25	.03	.00
32	.01	.13	-.13	-.08	.28	.32	.27	.20	.03	.29
33	-.24	.08	.24	.26	.02	-.02	-.16	-.01	.27	-.17
34	-.16	-.01	.24	.00	-.02	-.05	-.18	-.01	.30	-.28
35	-.08	.25	-.06	-.31	.03	.14	-.06	-.14	-.10	-.01
36	.20	-.14	.16	.05	.26	.00	-.16	-.13	.00	-.15
37	.04	-.06	-.09	.41	.20	.12	.44	.25	-.32	.45
38	.01	-.14	-.15	.12	.10	-.09	.22	-.01	-.14	.34
39	-.12	-.07	.04	.18	.21	-.21	.12	.07	.24	-.07
40	.12	-.12	.13	-.06	.23	.00	-.24	-.06	.23	-.17
41	.14	.05	-.24	-.36	-.18	.05	-.23	-.03	-.03	-.20
42	.18	-.10	.01	.15	-.02	.01	-.08	-.14	.02	.23
43	-.06	.13	-.26	-.14	.07	-.24	-.11	.08	-.17	.16
44	.04	.02	-.20	.05	.11	-.08	.02	.11	-.03	.10
45	.11	.01	-.15	-.43	.03	.16	.00	.17	-.13	-.18
46	-.04	.24	-.07	-.23	-.02	.11	-.03	.07	-.05	-.23
47	-.11	.20	.28	.02	.06	-.23	-.26	-.12	.37	-.41
48	-.42	.23	.19	-.33	-.05	.17	-.49	-.31	.17	-.43
49	.14	-.06	.08	-.13	.20	-.15	.26	.55	-.26	-.07
50	.05	.06	.21	-.07	-.52	.11	-.08	-.04	.13	-.02

	61	62	63	64	65	66	67	68	69	70
1	-.08	-.25	.15	-.12	.30	.04	-.06	.12	.04	.28
2	.34	.24	.11	-.09	-.19	-.01	.05	-.17	.26	.04
3	.03	.05	.41	.06	-.10	.23	-.23	.18	.04	-.17
4	.16	.07	.17	-.10	-.09	-.11	-.02	-.03	.18	.03
5	.31	.22	.30	-.05	-.09	.21	-.08	-.02	-.09	-.07
6	-.07	-.21	-.22	-.15	-.01	.02	.05	.26	.03	.09
7	.07	.25	.18	.12	.15	.14	.02	.10	.13	.17
8	.00	-.04	-.04	-.06	-.14	.24	.09	.27	-.20	.17
9	.07	.18	.09	.09	-.16	-.03	-.27	.18	-.27	.11
10	.14	.05	.05	-.02	.00	.42	.09	.09	-.15	.25
11	.23	.30	.16	-.01	-.04	.01	-.34	-.01	.00	-.45
12	.11	.22	.21	.14	-.04	.08	.09	.11	.33	-.30
13	.24	.14	.05	.12	.22	.19	.07	.14	.05	.06
14	.10	.12	.04	.28	.39	-.30	.10	-.15	.02	.28
15	.09	.17	.27	.06	.11	.12	-.10	.08	.12	-.07
16	-.14	.05	.21	.34	.05	-.06	-.05	.02	.03	.12
17	-.35	-.10	-.25	-.25	.13	.20	.25	.14	-.16	.22
18	.38	-.03	.11	.06	-.11	.08	-.02	-.05	-.06	-.04
19	-.13	.01	.00	.09	-.20	-.18	.05	-.27	-.05	-.23
20	.22	.12	.01	-.17	.16	-.11	.20	.15	-.12	.11
21	-.21	.10	.03	.10	.21	.16	.30	.20	.21	.12
22	-.19	-.01	.04	-.04	.20	.07	.09	-.14	.34	-.10
23	-.15	-.05	-.11	-.16	.01	.23	.18	.21	-.01	.19
24	.07	-.02	-.17	.07	-.02	.32	.20	.11	.04	.13
25	.22	.07	.00	-.04	.21	.21	.25	.07	-.14	.05
26	.20	.21	.19	.03	.08	.11	.19	.14	.18	.07
27	-.17	-.06	.00	.15	-.04	.30	.20	.23	-.15	.06
28	.46	.08	-.03	.08	-.31	.00	-.05	-.23	-.37	-.01
29	.13	-.01	-.18	.00	.15	.10	-.04	-.07	.03	.29
30	.21	.17	.23	.18	-.12	.10	-.08	-.09	.10	-.32
31	-.04	.02	.22	.06	.00	.06	-.11	-.04	.17	-.05
32	.31	.23	.22	.00	-.09	.01	.33	-.03	-.09	.11
33	-.31	.24	.11	.32	.04	.03	.12	.28	-.06	-.02
34	-.06	.20	.18	.11	.12	.03	.08	.12	.13	-.18
35	-.03	-.12	.14	.12	.18	.17	-.19	-.09	.09	-.02
36	-.21	-.03	.02	.13	.03	.06	-.01	.06	.33	-.03
37	.53	.34	-.02	.06	.08	-.10	-.09	-.10	.06	-.02
38	.29	.22	-.01	.12	.00	-.01	.27	-.20	.06	-.08
39	-.01	.14	.02	.24	.05	-.06	.35	-.06	.18	-.07
40	-.03	-.02	.08	.13	-.10	.03	.07	.11	-.07	.36
41	-.02	-.01	.05	-.31	-.16	.04	-.16	-.04	-.21	.12
42	.07	.21	.34	.03	.23	.11	-.25	.23	.04	.17
43	.25	.16	.03	.07	-.07	.08	-.07	.00	-.06	-.15
44	.30	.17	.03	.12	-.03	.05	.07	.12	.02	-.03
45	.29	.25	.20	-.08	-.09	.20	-.26	.06	.08	-.06
46	.03	.08	.11	.04	-.18	.26	-.31	.05	-.10	-.05
47	-.16	-.11	-.14	.06	.14	.25	.13	.12	-.02	.09
48	-.48	-.01	.19	.19	.02	.13	-.22	.10	-.09	.16
49	.30	-.07	-.05	-.18	-.23	-.01	-.20	-.15	.16	-.29
50	-.08	-.27	-.14	-.08	.02	.05	.06	.15	-.07	.16

	71	72	73	74	75	76	77	78	79	80
1	.09	.13	-.18	-.07	.00	-.02	-.16	.31	.11	.00
2	-.14	-.06	-.01	.11	.25	.00	-.17	.14	.27	.02
3	.05	.21	-.19	-.03	.06	-.04	.05	.23	.04	.26
4	.05	.23	.03	-.02	.03	-.17	-.08	.22	-.13	.02
5	.25	-.23	.02	-.19	-.15	.05	-.06	.06	.07	.47
6	.09	-.13	.11	.04	-.11	-.02	-.09	.12	-.04	-.10
7	.09	-.25	.06	.24	.33	.21	-.11	.29	.28	.08
8	-.13	-.48	.00	.17	-.19	-.05	.00	-.04	.11	.16
9	-.04	-.12	.24	.11	-.17	-.02	-.08	.00	-.03	.21
10	.15	-.40	.05	.33	.07	.15	.10	.13	.25	.18
11	.17	.19	.22	-.03	-.10	-.25	-.11	-.09	.06	.27
12	.22	.33	.20	.03	-.07	.06	.18	.05	.26	.04
13	-.03	.24	.31	.02	.21	.10	.18	.14	.21	.37
14	.01	.05	.05	-.06	-.03	.04	.02	.23	-.17	-.12
15	.16	.11	.09	-.16	-.07	-.13	-.09	.09	-.03	.47
16	-.04	.19	.14	-.03	-.15	.07	-.03	.28	-.03	.26
17	-.04	-.15	.12	.19	-.19	-.07	.11	-.12	-.24	-.07
18	-.05	.00	-.21	.12	.08	.14	.03	.06	.29	.09
19	.02	-.04	.18	-.20	.08	.14	-.01	-.22	.00	-.18
20	-.16	.06	.00	.00	-.15	-.19	.01	-.05	-.08	.14
21	.04	.02	.10	.03	-.01	.19	.22	-.13	.05	-.19
22	-.06	.22	-.03	-.05	.28	.08	.02	.06	-.07	-.01
23	-.04	-.44	.17	.24	-.05	.07	-.10	-.08	.09	-.12
24	.17	-.01	.12	.17	-.05	.16	.05	.01	.10	-.17
25	.07	.07	.19	.00	-.22	.03	-.11	.10	.25	.11
26	.01	-.10	-.05	.23	.05	.02	-.12	.10	.29	.24
27	.03	-.06	.27	.20	-.16	.15	.09	.08	.16	-.05
28	.05	.06	-.20	-.06	.17	.15	.05	.03	.11	-.06
29	.03	.03	.01	.08	.00	.18	-.16	.01	-.04	-.14
30	.05	.02	.02	-.20	.07	.11	-.06	.15	.15	.30
31	-.19	-.07	-.10	-.19	.18	.14	.05	.03	.27	.36
32	-.19	.00	-.33	-.05	.13	.14	.27	.23	.06	.23
33	-.04	-.11	.26	.27	-.12	.09	.24	-.07	.05	-.18
34	-.15	.20	.09	.05	.03	-.11	.13	-.08	.00	-.10
35	.00	.03	-.01	-.40	.15	.19	.05	.29	.11	.33
36	.12	.23	.03	.03	.11	.37	-.05	.22	-.23	-.39
37	.01	.10	.09	-.02	.18	.01	-.01	-.03	.11	.14
38	-.21	-.09	.12	-.34	.02	.04	-.01	.07	.16	.42
39	-.04	.36	.21	-.05	-.08	.06	.13	.13	-.11	-.11
40	-.23	-.14	-.22	.36	.04	.00	-.03	.05	.15	-.09
41	-.01	-.49	-.11	.19	-.02	-.14	-.08	-.28	.03	.00
42	.12	.25	.01	-.07	-.10	-.15	-.07	.24	.17	.37
43	-.01	.22	-.26	-.26	.06	.04	-.03	-.07	.18	.26
44	.15	.14	.34	-.15	-.10	.02	-.02	.04	.16	.22
45	-.03	.05	-.14	.00	-.05	-.18	.03	.08	-.16	-.02
46	.01	.00	-.07	-.02	-.08	-.11	.08	.07	-.32	-.08
47	-.04	-.12	.15	.30	-.16	-.08	.09	-.13	.20	-.22
48	.00	-.24	.06	.26	-.06	.04	.01	.02	.08	-.02
49	.13	.20	.06	-.13	.12	.01	.08	-.27	-.16	-.14
50	-.10	-.17	-.03	.02	.00	.05	.10	.14	.17	-.21

	81	82	83	84	85	86	87	88	89	90
1	.05	.32	.19	.35	.34	.05	.45	.36	.27	.26
2	-.03	.07	.32	.30	.07	.03	.26	-.27	.11	-.26
3	-.05	.30	.25	.33	.04	.15	.59	.03	.06	.20
4	.01	.34	.22	.39	.17	.51	.41	-.13	.25	.49
5	.30	.17	.06	.41	.32	.10	.24	-.02	-.04	.03
6	.01	.10	-.02	.36	.30	.45	.25	.41	.45	.39
7	.10	.16	.12	.55	.30	.09	.44	-.24	.24	-.33
8	.08	.37	-.01	.30	.31	.20	.25	.13	.00	.20
9	.15	.34	-.10	.37	.23	.52	.11	.05	.36	.30
10	.20	.50	.25	.65	.57	.24	.47	.18	.16	.03
11	.34	.10	.07	.55	.41	.70	.33	.15	.59	.40
12	.03	.02	.39	.51	.14	.54	.33	-.08	.86	.61
13	.15	.26	.44	.32	.29	.58	.24	.50	.44	.27
14	.00	-.23	-.12	-.44	-.12	-.36	-.46	-.07	.08	-.41
15	.08	.15	.23	.18	.12	.32	.25	.08	.24	.35
16	-.03	.28	.01	.06	.00	.33	.10	.25	-.08	.21
17	-.22	-.24	.04	-.03	-.25	.01	-.06	.12	-.08	-.24
18	.05	.20	-.02	.11	.21	-.21	-.02	-.17	-.26	-.26
19	-.32	-.30	-.21	-.46	-.41	-.44	-.39	-.30	-.42	-.30
20	.12	.10	.14	.18	.34	.51	.03	.31	.12	.49
21	-.03	-.04	.25	-.25	-.11	-.27	-.10	.09	.20	.31
22	-.15	.11	.47	.15	.05	-.13	.01	.31	.22	.00
23	-.08	.27	-.19	.16	.08	.01	.11	-.16	-.12	-.13
24	-.18	-.40	-.26	.10	-.12	-.09	-.22	.08	.46	-.22
25	-.01	-.16	-.13	.13	.16	.30	.05	.27	.01	-.04
26	.12	.01	.34	.52	.34	.48	.48	.22	.42	.31
27	-.11	.19	-.09	.11	.06	.04	-.18	.29	.19	-.15
28	.01	-.13	-.18	-.01	.13	-.15	-.39	-.25	-.18	-.27
29	-.17	-.18	.14	-.04	.05	-.28	-.29	.14	.01	-.52
30	-.03	.01	-.14	.03	.02	-.08	-.05	-.17	-.12	-.16
31	-.01	.17	-.12	.12	.17	-.27	.25	.07	-.19	.05
32	.14	-.03	-.05	-.04	.12	-.19	.05	.13	-.11	.12
33	-.02	-.01	-.05	-.34	-.21	.09	-.18	-.22	.10	.05
34	-.13	-.29	.02	-.49	-.57	-.28	-.29	-.56	-.05	-.39
35	.06	.26	-.08	.18	.34	-.32	.19	.37	-.15	.15
36	-.39	.06	.12	.04	-.06	-.02	-.07	.27	.14	-.19
37	.41	.02	.41	.35	.43	.44	.22	-.03	.49	.44
38	.13	-.08	.00	.07	.32	.09	-.08	.27	-.19	.17
39	-.05	-.44	.05	-.34	-.36	.03	-.26	-.02	-.07	.02
40	.02	.20	.02	.06	-.07	-.15	.12	-.04	-.05	-.19
41	.01	-.02	-.27	-.08	-.24	-.33	-.11	-.25	-.32	-.39
42	.24	.16	.16	.40	.22	.40	.35	.22	.47	.35
43	.21	-.16	-.08	.04	.06	.00	-.13	-.17	-.36	-.03
44	.22	-.20	-.16	.17	.06	.28	-.08	-.10	.44	.12
45	-.15	-.11	.05	-.14	-.22	-.25	-.02	-.11	.03	-.68
46	-.23	-.03	.04	-.23	-.19	-.14	-.18	.11	-.08	-.26
47	-.01	-.12	.09	-.30	-.33	-.36	-.11	-.28	-.18	-.28
48	-.03	.13	-.25	-.07	-.22	-.25	.08	-.13	.00	-.25
49	-.07	.04	.37	-.10	-.24	.09	-.18	-.21	.09	-.24
50	-.10	-.11	-.16	-.07	.03	-.33	-.01	.25	.07	-.10

	91	92	93	94	95	96	97	98	99	100
1	.27	.00	.08	.10	.04	.20	-.16	.13	.40	.18
2	.12	.36	.32	-.19	-.10	.25	.17	.27	.07	.36
3	.40	.22	-.06	.28	.23	.13	.48	.36	.03	.22
4	.39	.02	.28	.10	-.21	.08	-.11	-.20	.61	.22
5	.48	-.04	.32	.31	-.18	.48	.30	.38	.22	.30
6	.49	.13	.11	.07	.10	.24	-.22	-.43	.27	-.04
7	.17	.14	.34	.14	-.10	.39	-.13	-.02	.27	.19
8	.20	.40	.12	.06	-.26	.36	.25	-.14	.16	.06
9	.41	-.24	.31	.33	-.47	.29	-.05	-.21	.38	-.03
10	.43	.34	.36	.26	-.11	.45	.30	.00	.11	.19
11	.63	-.03	.52	.56	-.06	.42	.05	.10	.41	.10
12	.43	-.39	.02	.34	-.01	.02	.03	.25	.17	-.21
13	.44	.39	.28	.33	.80	.21	.22	.38	-.03	-.01
14	-.34	-.31	-.24	-.15	.07	-.44	-.56	.09	.26	-.01
15	.45	-.10	.24	.22	.17	.21	-.11	.08	.53	.08
16	.30	-.20	.06	.19	-.18	.00	.12	-.04	.07	-.04
17	-.27	.05	-.12	-.09	.01	-.24	.00	-.38	-.27	-.30
18	.13	.32	-.01	-.06	-.01	.10	.23	.49	.10	.50
19	-.46	-.20	-.09	-.31	-.09	-.40	.02	-.07	-.60	-.28
20	.29	.59	.35	.46	.48	.21	.02	-.31	.39	.21
21	-.07	.10	-.17	-.17	.26	-.04	-.12	-.37	-.28	-.28
22	-.02	.32	.27	.21	.52	.15	.27	.18	.20	.05
23	.06	.08	-.05	-.39	-.41	.17	-.09	-.29	.17	.08
24	-.23	.13	-.13	-.10	.06	-.23	.01	.17	.05	-.19
25	.13	.25	.06	.01	.30	-.03	.07	.05	-.02	-.08
26	.45	.70	.45	.11	.39	.52	.21	.17	.22	.29
27	.00	-.09	-.13	-.10	-.18	-.15	-.10	-.30	-.09	-.27
28	-.15	-.33	.14	.17	-.34	-.13	.26	.35	-.05	.20
29	.19	-.20	-.16	-.34	-.24	.02	-.11	-.13	-.13	.20
30	.14	.10	.17	.12	.21	.02	.19	.50	.24	.08
31	.16	.16	.05	.04	.37	.21	.22	.58	.16	.26
32	-.20	.52	.13	.24	.56	.02	.42	.42	.13	.22
33	-.12	-.13	-.26	-.44	-.45	-.14	-.33	-.43	-.37	-.29
34	-.40	-.36	-.26	-.51	-.02	-.44	-.59	-.06	-.03	-.03
35	.22	.17	.06	.30	.64	.12	.28	.54	-.02	.03
36	.08	-.20	-.08	.06	-.07	-.08	.20	-.30	-.17	-.20
37	.53	.16	.63	.52	.32	.42	-.09	.03	.20	.20
38	.13	.31	.44	.37	.49	.24	.34	.33	.10	-.03
39	-.29	.03	-.24	-.24	.29	-.41	-.03	-.10	-.27	-.23
40	.09	.11	-.05	-.18	-.46	.06	.14	.16	-.06	.12
41	.06	-.05	-.07	-.22	-.55	.19	.11	.03	-.04	.41
42	.39	-.16	.14	.35	-.05	.29	-.18	.22	.62	.22
43	.13	.01	.06	.23	.01	.18	.35	.60	-.03	.13
44	.30	-.09	.12	.28	-.03	-.06	-.22	.49	.41	-.03
45	-.03	.07	-.30	-.15	-.12	-.06	.14	.30	-.01	.26
46	.05	.11	-.34	-.32	-.09	-.07	.22	.06	-.28	.25
47	-.31	.00	-.47	.65	-.31	-.31	-.28	-.09	-.39	-.12
48	-.10	-.16	-.32	-.20	-.42	.08	-.09	.15	-.11	-.10
49	-.03	-.30	-.02	-.17	-.39	-.05	.18	.02	-.18	.05
50	-.06	-.26	-.35	-.41	-.03	-.09	-.28	.01	-.11	.01

	101	102	103	104	105	106	107	108	109	110
1	.09	.37	.38	.04	.20	.12	-.11	-.10	-.12	-.03
2	-.02	.34	.24	.20	.10	-.02	.04	.42	.16	.52
3	-.11	.09	.00	-.30	-.07	.04	-.25	-.11	.00	.21
4	.13	.37	.39	.36	.14	.22	-.02	-.08	-.09	.22
5	.26	.35	.22	.09	.02	.04	-.01	.16	-.01	.25
6	-.10	.06	.13	.05	.23	.01	.02	-.25	-.06	.00
7	.07	.29	.13	.26	.18	.06	-.02	.08	.05	.21
8	.06	.14	.29	.19	.28	.02	.02	.14	.05	.03
9	.20	.27	.47	.19	.11	.02	-.05	.08	-.13	-.16
10	.27	.28	.27	.14	.33	-.02	.24	.27	.21	.08
11	.18	.46	.17	.04	.09	.25	-.06	.01	-.27	.18
12	-.17	.10	-.07	-.29	.13	-.06	-.36	-.02	-.58	-.01
13	-.01	.03	-.17	-.14	.24	.12	.07	-.06	-.07	.03
14	.21	.06	-.06	.12	-.09	.04	-.11	-.11	-.22	-.14
15	.04	.23	.10	-.04	.02	.21	-.47	-.24	-.29	.16
16	.18	.14	.08	.01	.13	-.02	-.09	-.40	-.24	-.45
17	-.23	-.44	-.38	-.08	-.14	-.19	.23	-.17	.26	-.33
18	.48	.49	.49	.11	.32	.41	.24	.55	.15	.31
19	.04	-.19	-.30	-.51	-.39	-.01	-.16	-.03	.03	-.24
20	.04	.33	.27	.20	.22	.27	.14	-.08	-.04	.11
21	-.40	-.29	-.16	-.29	-.19	-.22	-.22	-.10	-.09	-.21
22	-.11	.11	.08	-.01	.26	-.03	-.10	-.01	-.12	-.09
23	.02	.02	.23	.30	.14	-.04	.26	.18	.36	.00
24	-.02	.09	-.20	-.15	.01	.02	.04	.17	-.01	.13
25	-.03	.14	-.10	-.22	.09	.18	.10	-.11	.12	-.01
26	.05	.28	.07	.07	.24	-.09	-.03	.23	.07	.35
27	-.19	-.25	.00	-.04	.18	-.22	.00	-.34	-.11	-.49
28	.28	.20	.26	-.12	-.19	.14	.13	.44	-.14	.05
29	.06	.01	.17	-.07	-.19	.06	.17	.14	.09	-.04
30	.14	.31	.16	-.08	.15	.23	-.24	.08	-.10	.19
31	.23	.43	.27	-.09	.13	.36	-.12	.15	-.01	.17
32	.22	.24	.05	-.18	-.03	.25	-.02	.43	.16	.39
33	-.16	-.32	-.14	.01	-.17	-.29	-.07	-.03	.05	-.44
34	-.20	-.14	-.18	-.13	-.32	.03	-.22	-.02	.00	.13
35	.05	.29	.02	-.36	.13	.18	-.23	-.15	-.17	.08
36	-.32	-.34	-.13	-.19	-.05	-.42	.08	-.31	-.07	-.30
37	.16	.39	.17	.07	.04	.11	.08	.39	-.10	.31
38	.20	.36	-.08	-.08	.22	.22	.00	.02	-.11	.14
39	-.18	-.29	-.68	-.06	-.15	-.22	.14	-.28	-.02	-.14
40	.01	-.05	.17	.07	.01	-.07	-.09	.18	-.21	-.10
41	.24	-.05	.23	.14	-.29	.09	.06	.21	.23	.11
42	.13	.53	.25	.23	.11	.21	-.16	-.13	-.41	.12
43	.21	.20	.22	-.09	-.05	.42	-.05	.31	-.19	.07
44	.23	.34	-.04	.00	.15	.40	-.17	.04	-.36	.29
45	-.01	-.09	.24	.03	-.23	.25	-.09	.15	.18	.51
46	.12	-.28	-.03	-.02	-.41	-.14	.16	.08	.36	.13
47	-.16	-.30	-.30	-.08	-.13	-.13	.02	.03	-.03	-.17
48	-.12	-.12	-.09	.11	-.02	-.25	-.14	-.19	-.07	-.33
49	.10	-.19	.02	-.08	-.07	-.03	.10	.36	.10	.29
50	-.02	-.02	.08	-.26	-.10	.10	-.21	.03	-.12	-.01

	111	112	113	114	115	116	117	118	119	120
1	.01	.08	.19	-.34	-.09	.22	.36	.06	-.38	.05
2	.23	-.07	.28	.02	.18	.25	.29	-.13	-.06	.10
3	.00	-.12	-.10	-.20	-.05	.30	.19	.11	-.01	-.02
4	.06	.21	.19	-.02	.12	.17	.37	.07	-.34	.01
5	.25	.05	.26	-.12	-.04	.21	.29	-.05	-.11	-.02
6	-.17	-.11	-.11	.00	-.11	.48	.18	.17	-.02	-.19
7	.18	-.01	.12	-.14	.23	.26	.43	-.08	.39	.25
8	.17	.05	.25	.12	-.11	.16	.23	-.23	.16	-.04
9	-.16	.20	.40	-.05	-.04	.18	.32	-.22	-.07	-.20
10	.22	.20	.39	.17	.06	.36	.32	-.30	.07	-.01
11	-.01	-.01	.19	-.28	-.07	.50	.35	.05	-.04	-.08
12	-.11	-.37	-.15	-.15	-.38	.01	-.01	-.06	-.10	-.16
13	.08	.01	-.15	-.10	.03	.31	-.04	.37	.05	.23
14	-.13	.15	.01	-.13	-.04	-.21	.16	.19	-.13	.13
15	-.16	-.14	.06	-.23	-.05	.15	.30	.10	-.05	.26
16	-.36	.24	.00	.10	-.30	-.12	.04	-.05	-.10	.05
17	-.19	-.14	-.25	.24	-.03	-.13	-.22	-.32	.12	-.22
18	.34	.28	.20	-.08	.04	.20	.29	.13	-.08	.12
19	-.15	-.10	-.02	.00	-.27	-.24	-.37	-.08	-.03	.21
20	-.10	.07	.17	-.09	-.17	.34	.22	.22	-.08	.08
21	.06	-.32	.08	.05	-.12	-.14	-.20	.04	-.13	.04
22	-.24	-.16	-.09	.03	-.05	-.15	-.12	.07	.01	.13
23	.21	.16	.34	.22	.25	.06	.09	-.30	.09	-.04
24	-.12	-.16	.17	.14	.07	.01	-.09	-.48	.22	-.14
25	-.16	-.09	.18	-.08	-.12	.28	-.06	-.04	-.01	.03
26	.17	-.24	.03	-.46	-.31	.38	.33	-.35	-.04	.09
27	-.17	-.01	-.08	.17	-.12	-.11	-.27	-.01	.12	-.37
28	-.09	.07	.10	-.07	.08	.11	.02	.09	.01	-.01
29	.04	-.06	-.08	-.19	-.05	.28	.11	.14	-.07	-.14
30	-.07	.05	.18	-.04	.04	.03	.11	-.07	.21	.36
31	.20	.02	.17	-.23	-.09	.05	.13	.05	.00	.54
32	.04	-.14	.19	-.09	.04	-.04	-.01	.16	.01	.27
33	-.02	-.07	-.11	.09	.04	-.16	-.12	-.09	.04	-.22
34	-.25	-.31	-.07	.05	.25	-.10	.08	.06	-.11	.02
35	.16	.05	.14	-.11	.01	-.05	.04	.18	.03	.51
36	-.09	-.19	-.38	-.08	-.17	-.15	-.20	.02	.05	-.19
37	.02	.09	.34	-.14	-.08	.54	.36	.10	.01	.02
38	-.22	.00	.27	.13	-.18	.03	-.08	-.06	.25	.55
39	-.15	-.05	-.38	.17	.02	-.39	-.53	.16	.08	-.13
40	.15	-.09	.00	-.13	-.21	-.08	.23	-.32	-.11	-.12
41	.21	.13	.27	-.03	.12	.23	.27	-.30	-.17	.17
42	.06	.02	.23	-.18	-.01	.16	.45	.16	-.13	.05
43	.19	-.03	.03	-.11	-.07	.04	.10	.03	.10	.30
44	.01	-.08	.19	-.05	-.06	.11	.32	.00	-.04	.21
45	.40	-.08	.16	.03	.22	.13	.30	.05	.08	.00
46	.32	.17	-.03	.13	.17	.00	-.04	.13	.09	-.11
47	.20	-.09	-.05	.21	.02	-.21	-.08	-.07	-.05	-.10
48	.18	-.01	-.14	-.02	.10	-.25	.10	-.28	-.09	-.11
49	.02	.03	.05	.23	-.01	-.04	-.11	.11	-.23	-.25
50	-.20	-.20	-.12	-.08	.04	.28	.01	.23	-.03	-.05

	121	122	123	124	125	126	127	128	129	130
1	-.20	.08	-.04	-.26	-.06	.01	.17	-.03	.01	-.04
2	.12	.19	.05	-.19	.11	-.18	-.33	.05	.04	.29
3	.02	.00	-.23	-.10	.04	-.23	.01	-.21	-.04	-.09
4	-.32	.05	.22	-.50	.11	.01	.05	-.11	-.21	.08
5	-.13	.11	-.04	.22	.03	.01	-.19	-.09	-.34	.37
6	-.18	-.26	-.20	-.30	.18	.08	.22	-.58	-.28	-.08
7	.04	.25	-.08	-.31	.33	.14	-.06	-.04	-.15	.33
8	-.26	-.14	-.04	.09	-.01	.15	-.05	-.24	-.42	.16
9	-.26	-.15	.25	-.10	.14	.09	.34	-.05	-.44	.14
10	-.18	.00	.01	-.09	.05	.22	-.16	-.09	-.30	.30
11	-.08	-.01	.15	-.30	.30	-.07	.27	-.18	-.07	.05
12	.00	-.22	-.05	-.28	.20	-.22	.11	-.20	.17	-.37
13	-.05	.09	.01	.20	-.10	.13	.03	-.03	.28	-.10
14	.20	.32	-.07	-.07	.06	-.03	.28	.20	.18	.13
15	-.27	.15	.14	-.09	.16	-.10	.05	-.22	-.30	.16
16	-.19	.02	-.03	-.01	.16	.02	.21	-.10	-.24	.04
17	-.09	-.35	-.04	-.02	-.21	.00	.27	-.26	-.09	-.32
18	.02	.28	.09	.37	-.27	.17	-.41	.16	.02	.38
19	.07	.06	-.02	-.12	.04	-.17	.07	.21	.21	-.07
20	-.22	.08	.10	-.12	-.25	-.13	.24	-.29	-.13	.00
21	.01	.00	-.04	-.17	-.11	-.25	-.17	.15	.31	-.25
22	.09	.03	-.02	.29	-.27	-.11	-.14	-.02	.12	-.13
23	-.41	-.09	-.11	-.38	-.30	.20	-.03	-.15	-.33	.20
24	.12	-.30	-.03	-.29	-.09	.02	.18	-.14	.03	-.24
25	-.19	-.12	-.26	-.14	-.05	-.14	.20	-.36	.09	-.23
26	.09	.11	.05	.22	.38	-.25	-.19	-.13	-.04	.20
27	-.38	-.45	-.37	-.07	-.01	.26	.31	-.37	-.23	-.32
28	.12	.10	.06	.10	.19	.01	-.01	.21	.14	.09
29	-.13	-.04	.04	-.04	-.27	.09	-.01	-.01	.11	.01
30	.07	.24	-.04	.18	.04	.03	-.22	-.06	-.17	.25
31	.00	.45	.03	.15	-.43	-.04	-.26	.30	.11	.43
32	.03	.31	-.11	.27	-.19	-.27	-.18	.25	.27	.13
33	.01	-.07	-.15	.02	.46	-.07	.04	.12	.07	-.07
34	.06	.18	-.12	-.17	.22	-.33	.01	.05	.12	-.03
35	.09	.36	-.08	.17	-.55	.18	-.30	.32	.19	.28
36	.13	-.33	-.18	-.08	-.13	.13	.19	-.06	.11	-.54
37	.21	.19	.13	-.15	.18	-.10	-.09	-.02	.13	.23
38	.06	.24	.04	.28	-.27	-.07	-.14	-.02	.09	.09
39	.08	-.19	-.16	.01	-.01	-.16	.10	.02	.45	-.54
40	-.04	-.01	.13	.12	.11	.10	-.05	.10	-.12	.13
41	.05	.29	.37	-.05	.20	-.15	-.13	.09	-.39	.63
42	.13	.14	.07	-.30	.18	-.09	.10	.01	-.08	.06
43	.20	.33	.40	.31	-.06	-.07	-.47	.33	.21	.22
44	.00	.10	.28	-.16	.02	-.05	.08	-.05	-.09	.13
45	.21	.15	.28	-.07	-.05	-.14	-.32	.23	-.01	.09
46	.07	-.02	.13	.06	.05	.00	-.30	.37	.04	-.03
47	-.10	-.07	-.03	-.09	.03	.03	-.23	.07	.12	-.09
48	.05	.04	.04	.14	.14	.04	.01	.19	-.14	.14
49	.00	-.24	.18	.30	.11	.05	-.24	.04	-.07	-.13
50	.05	-.04	-.26	-.07	.11	-.02	.02	-.09	.11	-.04

	131	132	133	134	135	136	137	138	139	140
1	.17	-.08	.28	.14	-.13	.06	-.24	-.23	-.09	.03
2	.28	.11	.40	-.12	.15	.17	-.37	-.21	.20	-.27
3	.23	-.24	.06	.24	.06	-.03	.27	.04	-.18	.08
4	.11	-.03	.30	.00	.05	.14	-.23	-.46	.14	-.21
5	.10	.07	-.52	.06	.09	-.08	.07	.01	.17	.40
6	.15	.18	-.09	.20	.10	-.14	.18	-.38	.15	-.13
7	.23	.30	-.17	.24	.23	.07	-.23	-.06	.04	.16
8	.03	-.04	-.79	.01	.25	-.16	.19	-.25	.32	-.14
9	-.51	.04	-.21	.10	.01	.03	.15	.02	.08	.30
10	-.05	-.04	-.48	.26	.38	-.10	-.20	.10	.21	-.17
11	.08	.23	.14	.34	.14	-.10	.11	.11	.08	.10
12	.20	.07	.38	.45	.11	-.05	.06	.29	-.09	-.50
13	.13	.03	-.30	.23	.15	-.25	.25	.38	-.02	.38
14	-.03	.19	.08	-.18	-.49	-.02	-.15	.07	-.36	.16
15	.15	.17	-.22	.26	-.09	-.02	.13	-.21	-.03	.19
16	-.37	-.07	.02	.18	-.13	.14	.11	.04	-.16	.03
17	-.16	-.02	-.34	-.20	.13	-.09	.11	.16	.03	-.10
18	.18	-.12	.34	-.07	-.01	-.03	-.15	-.11	-.04	-.08
19	-.17	-.08	-.03	-.46	.13	.20	-.20	.11	.17	.13
20	.15	-.15	.30	-.23	.02	-.11	.14	-.41	-.01	-.07
21	.16	-.24	-.08	.16	.02	.20	-.33	.23	.01	-.09
22	.05	-.28	.51	.20	-.38	-.07	-.02	.02	-.31	-.15
23	-.09	-.08	-.73	.02	.13	-.07	-.19	-.23	.20	-.12
24	-.06	.33	-.13	.14	.02	-.38	.01	.14	-.02	-.37
25	.21	.19	-.08	.00	.19	-.09	-.03	-.09	.08	.27
26	.33	.18	.39	.17	.15	.03	-.25	.01	.17	-.42
27	-.17	-.17	-.52	.20	.22	-.25	.30	.02	.15	.10
28	-.04	-.05	.17	-.29	.17	-.14	-.13	-.04	-.03	-.01
29	.11	.04	-.08	-.15	-.16	.23	-.22	-.02	-.13	.15
30	.11	.27	-.25	.21	-.02	-.11	.12	-.20	.00	-.04
31	.14	-.16	-.04	-.08	-.29	-.10	.03	.10	-.19	.08
32	.30	-.06	.05	-.38	-.04	-.28	.08	.11	-.15	-.11
33	-.14	.00	-.45	.39	.27	.09	-.04	.45	.14	.00
34	.18	.02	.30	.18	-.05	.18	-.10	.25	-.15	.32
35	.09	-.13	-.12	.16	-.26	.04	.08	.19	-.15	.14
36	.07	-.30	.05	.40	.01	.28	-.03	.05	-.20	.10
37	.19	.25	.36	-.17	.06	-.03	-.17	-.04	.12	-.11
38	.09	.11	.21	-.14	.03	-.13	.10	-.06	.17	.06
39	.02	.01	.26	.19	.03	-.08	.19	.41	.16	-.07
40	.21	-.22	-.15	-.01	.11	.17	-.14	.09	.04	-.22
41	-.16	-.03	-.35	-.24	.04	.02	-.34	-.02	-.19	.13
42	.06	.24	.23	.38	-.22	-.08	.03	.11	.19	-.08
43	.16	.22	.41	-.26	.13	.11	-.14	.11	-.07	.03
44	.09	.35	.14	.36	-.01	-.25	.22	.12	.13	.01
45	.17	.24	.16	.07	-.11	.32	-.05	.15	-.22	.32
46	-.26	-.02	-.24	.24	-.07	.19	.03	.30	.06	.28
47	.16	-.01	-.29	.14	.15	.16	-.24	.24	.19	-.04
48	-.15	-.21	-.33	.50	-.13	-.08	.06	.47	-.21	-.01
49	-.07	-.08	.17	.06	-.02	.20	.04	.11	.06	-.08
50	.16	.23	.17	.18	.03	.03	.04	.19	.00	.08

	1	2	3	4	5	6	7	8	9	10
51	.24	.22	-.20	.55	.18	.25	-.06	.16	.33	.07
52	.08	-.02	-.12	-.16	-.09	-.31	-.02	-.06	-.08	.12
53	.19	-.27	.03	-.18	-.30	.12	.00	-.04	-.09	.13
54	.01	.02	-.24	.23	-.02	.38	.01	.13	.31	.05
55	-.17	.03	.02	.13	-.05	-.34	.05	.01	-.14	.07
56	.14	.09	.10	-.13	-.16	-.06	.30	-.02	.06	.24
57	.00	.28	-.11	.23	.01	.05	.00	.09	.01	.16
58	-.18	.20	-.28	.05	.10	-.18	-.06	-.11	.25	.05
59	.00	-.22	.17	-.10	-.10	-.03	-.28	-.01	-.14	-.16
60	.21	.02	.11	.15	.06	.23	.07	.06	.16	.17
61	-.08	.34	.03	.16	.31	-.07	.07	.00	.07	.14
62	-.25	.24	.05	.07	.22	-.21	.25	-.04	.18	.05
63	.15	.11	.41	.17	.30	-.22	.18	-.04	.09	.05
64	-.12	-.09	.06	-.10	-.05	-.15	.12	-.06	.09	-.02
65	.30	-.19	-.10	-.09	-.09	-.01	.15	-.14	-.16	.00
66	.04	-.01	.23	-.11	.21	.02	.14	.24	-.03	.42
67	-.06	.05	-.23	-.02	-.08	.05	.02	.09	-.27	.09
68	.12	-.17	.18	-.03	-.02	.26	.10	.27	.18	.09
69	.04	.26	.04	.18	-.09	.03	.13	-.20	-.27	-.15
70	.28	.04	-.17	.03	-.07	.09	.17	.17	.11	.25
71	.09	-.14	.05	.05	.25	.09	.09	-.13	-.04	.15
72	.13	-.06	.21	.23	-.23	-.13	-.25	-.48	-.12	-.40
73	-.18	-.01	-.19	.03	.02	.11	.06	.00	.24	.05
74	-.07	.11	-.03	-.02	-.19	.04	.24	.17	.11	.33
75	.00	.25	.06	.03	-.15	-.11	.33	-.19	-.17	.07
76	-.02	.00	-.04	-.17	.05	-.02	.21	-.05	-.02	.15
77	-.16	-.17	.05	-.08	-.06	-.09	-.11	.00	-.08	.10
78	.31	.14	.23	.22	.06	.12	.29	-.04	.00	.13
79	.11	.27	.04	-.13	.07	-.04	.28	.11	-.03	.25
80	.00	.02	.26	.02	.47	-.10	.08	.16	.21	.18
81	.05	-.03	-.05	.01	.30	.01	.10	.08	.15	.20
82	.32	.07	.30	.34	.17	.10	.16	.37	.34	.50
83	.19	.32	.25	.22	.06	-.02	.12	-.01	-.10	.25
84	.35	.30	.33	.39	.41	.36	.55	.30	.37	.65
85	.34	.07	.04	.17	.32	.30	.30	.31	.23	.57
86	.05	.03	.15	.51	.10	.45	.09	.20	.52	.24
87	.45	.26	.59	.41	.24	.25	.44	.25	.11	.47
88	.36	-.27	.03	-.13	-.02	.41	-.24	.13	.05	.18
89	.27	.11	.06	.25	-.04	.45	.24	.00	.36	.16
90	.26	-.26	.20	.49	.03	.39	-.33	.20	.30	.03
91	.27	.12	.40	.39	.48	.49	.17	.20	.41	.43
92	.00	.36	.22	.02	.04	.13	.14	.40	-.24	.34
93	.08	.32	-.06	.28	.32	.11	.34	.12	.31	.36
94	.10	-.19	.28	.10	.31	.07	.14	.06	.33	.26
95	.04	-.10	.23	-.21	-.18	.10	-.10	-.26	-.47	-.11
96	.20	.25	.13	.08	.48	.24	.39	.36	.29	.45
97	-.16	.17	.48	-.11	.30	-.22	-.13	.25	-.05	.30
98	.13	.27	.36	-.20	.38	-.43	-.02	-.14	-.21	.00
99	.40	.07	.03	.61	.22	.27	.27	.16	.38	.11
100	.18	.36	.22	.22	.30	-.04	.19	.06	-.03	.19

	11	12	13	14	15	16	17	18	19	20
51	-.02	-.05	-.29	-.03	.11	.18	-.06	-.04	-.08	.30
52	-.33	-.09	.08	.14	-.10	-.28	.00	.28	.06	-.32
53	.04	-.06	.16	-.06	-.27	.08	.27	-.05	-.11	-.05
54	.28	-.07	.24	.11	.03	.26	.13	-.16	-.15	.33
55	.07	.22	.39	.07	.12	-.06	.08	-.13	-.03	.17
56	-.09	-.29	.15	.05	-.12	-.21	.14	.03	-.05	.05
57	.18	.11	.33	-.09	-.05	-.18	-.21	.08	-.02	.21
58	.09	-.01	-.03	-.06	-.21	-.21	-.23	.12	.02	-.10
59	-.06	.13	-.10	.01	-.06	.27	.28	-.05	.27	.10
60	.32	.09	.39	-.02	.03	.10	-.08	.07	-.19	.49
61	.23	.11	.24	.10	.09	-.14	-.35	.38	-.13	.22
62	.30	.22	.14	.12	.17	.05	-.10	-.03	.01	.12
63	.16	.21	.05	.04	.27	.21	-.25	.11	.00	.01
64	-.01	.14	.12	.28	.06	.34	-.25	.06	.09	-.17
65	-.04	-.04	.22	.39	.11	.05	.13	-.11	-.20	.16
66	.01	.08	.19	-.30	.12	-.06	.20	.08	-.18	-.11
67	-.34	.09	.07	.10	-.10	-.05	.25	-.02	.05	.20
68	-.01	.11	.14	-.15	.08	.02	.14	-.05	-.27	.15
69	.00	.33	.05	.02	.12	.03	-.16	-.06	-.05	-.12
70	-.45	-.30	.06	.28	-.07	.12	.22	-.04	-.23	.11
71	.17	.22	-.03	.01	.16	-.04	-.04	-.05	.02	-.16
72	.19	.33	.24	.05	.11	.19	-.15	.00	-.04	.06
73	.22	.20	.31	.05	.09	.14	.12	-.21	.18	.00
74	-.03	.03	.02	-.06	-.16	-.03	.19	.12	-.20	.00
75	-.10	-.07	.21	-.03	-.07	-.15	-.19	.08	.08	-.15
76	-.25	.06	.10	.04	-.13	.07	-.07	.14	.14	-.19
77	-.11	.18	.18	.02	-.09	-.03	.11	.03	-.01	.01
78	-.09	.05	.14	.23	.09	.28	-.12	.06	-.22	-.05
79	.06	.26	.21	-.17	-.03	-.03	-.24	.29	.00	-.08
80	.27	.04	.37	-.12	.47	.26	-.07	.09	-.18	.14
81	.34	.03	.15	.00	.08	-.03	-.22	.05	-.32	.12
82	.10	.02	.26	-.23	.15	.28	-.24	.20	-.30	.10
83	.07	.39	.44	-.12	.23	.01	.04	-.02	-.21	.14
84	.55	.51	.32	-.44	.18	.06	-.03	.11	-.46	.18
85	.41	.14	.29	-.12	.12	.00	-.25	.21	-.41	.34
86	.70	.54	.58	-.36	.32	.33	.01	-.21	-.44	.51
87	.33	.33	.24	-.46	.25	.10	-.06	-.02	-.39	.03
88	.15	-.08	.50	-.07	.08	.25	.12	-.17	-.30	.31
89	.59	.86	.44	.08	.24	-.08	-.08	-.26	-.42	.12
90	.40	.61	.27	-.41	.35	.21	-.24	-.26	-.30	.49
91	.63	.43	.44	-.34	.45	.30	-.27	.13	-.46	.29
92	-.03	-.39	.39	-.31	-.10	-.20	.05	.32	-.20	.59
93	.52	.02	.28	-.24	.24	.06	-.12	-.01	-.09	.35
94	.56	.34	.33	-.15	.22	.19	-.09	-.06	-.31	.46
95	-.06	-.01	.80	.07	.17	-.18	.01	-.01	-.09	.48
96	.42	.02	.21	-.44	.21	.00	-.24	.10	-.40	.21
97	.05	.03	.22	-.56	-.11	.12	.00	.23	.02	.02
98	.10	.25	.38	.09	.08	-.04	-.38	.49	-.07	-.31
99	.41	.17	-.03	.26	.53	.07	-.27	.10	-.60	.39
100	.10	-.21	-.01	-.01	.08	-.04	-.30	.50	-.28	.21

	21	22	23	24	25	26	27	28	29	30
51	.09	-.04	.30	.05	.07	-.14	.05	.11	.25	-.05
52	.15	-.01	.20	.13	-.09	-.05	-.12	.12	.14	.01
53	.05	.22	-.05	.07	.12	-.21	.41	-.10	-.06	-.21
54	.09	.09	.26	.11	.32	-.01	.37	.06	.27	-.09
55	.28	.41	-.19	.06	-.12	.10	.00	.06	-.15	.01
56	-.02	.10	-.09	.21	-.03	.17	-.11	.04	.09	-.11
57	-.01	.02	-.12	-.01	.13	.32	-.16	.01	-.11	-.04
58	-.04	-.03	-.02	.02	-.11	-.03	-.20	.17	-.07	-.04
59	.28	.02	.00	.02	.22	-.18	.46	-.06	.15	-.24
60	-.16	.03	-.17	-.11	.29	.28	-.11	.10	-.07	-.02
61	-.21	-.19	-.15	.07	.22	.20	-.17	.46	.13	.21
62	.10	-.01	-.05	-.02	.07	.21	-.06	.08	-.01	.17
63	.03	.04	-.11	-.17	.00	.19	.00	-.03	-.18	.23
64	.10	-.04	-.16	.07	-.04	.03	.15	.08	.00	.18
65	.21	.20	.01	-.02	.21	.08	-.04	-.31	.15	-.12
66	.16	.07	.23	.32	.21	.11	.30	.00	.10	.10
67	.30	.09	.18	.20	.25	.19	.20	-.05	-.04	-.08
68	.20	-.14	.21	.11	.07	.14	.23	-.23	-.07	-.09
69	.21	.34	-.01	.04	-.14	.18	-.15	-.37	.03	.10
70	.12	-.10	.19	.13	.05	.07	.06	-.01	.29	-.32
71	.04	-.06	-.04	.17	.07	.01	.03	.05	.03	.05
72	.02	.22	-.44	-.01	.07	-.10	-.06	.06	.03	.02
73	.10	-.03	.17	.12	.19	-.05	.27	-.20	.01	.02
74	.03	-.05	.24	.17	.00	.23	.20	-.06	.08	-.20
75	-.01	.28	-.05	-.05	-.22	.05	-.16	.17	.00	.07
76	.19	.08	.07	.16	.03	.02	.15	.15	.18	.11
77	.22	.02	-.10	.05	-.11	-.12	.09	.05	-.16	-.06
78	-.13	.06	-.08	.01	.10	.10	.08	.03	.01	.15
79	.05	-.07	.09	.10	.25	.29	.16	.11	-.04	.15
80	-.19	-.01	-.12	-.17	.11	.24	-.05	-.06	-.14	.30
81	-.03	-.15	-.08	-.18	-.01	.12	-.11	.01	-.17	-.03
82	-.04	.11	.27	-.40	-.16	.01	.19	-.13	-.18	.01
83	.25	.47	-.19	-.26	-.13	.34	-.09	-.18	.14	-.14
84	-.25	.15	.16	.10	.13	.52	.11	-.01	-.04	.03
85	-.11	.05	.08	-.12	.16	.34	.06	.13	.05	.02
86	-.27	-.13	.01	-.09	.30	.48	.04	-.15	-.28	-.08
87	-.10	.01	.11	-.22	.05	.48	-.18	-.39	-.29	-.05
88	.09	.31	-.16	.08	.27	.22	.29	-.25	.14	-.17
89	.20	.22	-.12	.46	.01	.42	.19	-.18	.01	-.12
90	.31	.00	-.13	-.22	-.04	.31	-.15	-.27	-.52	-.16
91	-.07	.02	.06	-.23	.13	.45	.00	-.15	.19	.14
92	.10	.32	.08	.13	.25	.70	-.09	-.33	-.20	.10
93	.17	.27	-.05	-.13	.06	.45	-.13	.14	-.16	.17
94	-.17	.21	-.39	-.10	.01	.11	-.10	.17	-.34	.12
95	.26	.52	-.41	.06	.30	.39	-.18	-.34	-.24	.21
96	-.04	.15	-.17	-.23	-.03	.52	-.15	-.13	.02	.02
97	-.12	.27	-.09	.01	.07	.21	-.10	.26	-.11	.19
98	-.37	.18	-.29	.17	.05	.17	-.30	.35	-.13	.50
99	-.28	.20	.17	.05	-.02	.22	-.09	-.05	-.13	.24
100	-.28	.05	.08	-.19	-.08	.29	-.27	.20	.20	.08

	31	32	33	34	35	36	37	38	39	40
51	-.17	.01	-.24	-.16	-.08	.20	.04	.01	-.12	.12
52	.33	.13	.08	-.01	.25	-.14	-.06	-.14	-.07	-.12
53	-.12	-.13	.24	.24	-.06	.16	-.09	-.15	.04	.13
54	-.27	-.08	.26	.00	-.31	.05	.41	.12	.18	-.06
55	-.09	.28	.02	-.02	.03	.26	.20	.10	.21	.23
56	.09	.32	-.02	-.05	.14	.00	.12	-.09	-.21	.00
57	-.12	.27	-.16	-.18	-.06	-.16	.44	.22	.12	-.24
58	-.25	.20	-.01	-.01	-.14	-.13	.25	-.01	.07	-.06
59	.03	.03	.27	.30	-.10	.00	-.32	-.14	.24	.23
60	.00	.29	-.17	-.28	-.01	-.15	.45	.34	-.07	-.17
61	-.04	.31	-.31	-.06	-.03	-.21	.53	.29	-.01	-.03
62	.02	.23	.24	.20	-.12	-.03	.34	.22	.14	-.02
63	.22	.22	.11	.18	.14	.02	-.02	-.01	.02	.08
64	.06	.00	.32	.11	.12	.13	.06	.12	.24	.13
65	.00	-.09	.04	.12	.18	.03	.08	.00	.05	-.10
66	.06	.01	.03	.03	.17	.06	-.10	-.01	-.06	.03
67	-.11	.33	.12	.08	-.19	-.01	-.09	.27	.35	.07
68	-.04	-.03	.28	.12	-.09	.06	-.10	-.20	-.06	.11
69	.17	-.09	-.06	.13	.09	.33	.06	.06	.18	-.07
70	-.05	.11	-.02	-.18	-.02	-.03	-.02	-.08	-.07	.36
71	-.19	-.19	-.04	-.15	.00	.12	.01	-.21	-.04	-.23
72	-.07	.00	-.11	.20	.03	.23	.10	-.09	.36	-.14
73	-.10	-.33	.26	.09	-.01	.03	.09	.12	.21	-.22
74	-.19	-.05	.27	.05	-.40	.03	-.02	-.34	-.05	.36
75	.18	.13	-.12	.03	.15	.11	.18	.02	-.08	.04
76	.14	.14	.09	-.11	.19	.37	.01	.04	.06	.00
77	.05	.27	.24	.13	.05	-.05	-.01	-.01	.13	-.03
78	.03	.23	-.07	-.08	.29	.22	-.03	.07	.13	.05
79	.27	.06	.05	.00	.11	-.23	.11	.16	-.11	.15
80	.36	.23	-.18	-.10	.33	-.39	.14	.42	-.11	-.09
81	-.01	.14	-.02	-.13	.06	-.39	.41	.13	-.05	.02
82	.17	-.03	-.01	-.29	.26	.06	.02	-.08	-.44	.20
83	-.12	-.05	-.05	.02	-.08	.12	.41	.00	.05	.02
84	.12	-.04	-.34	-.49	.18	.04	.35	.07	-.34	.06
85	.17	.12	-.21	-.57	.34	-.06	.43	.32	-.36	-.07
86	-.27	-.19	.09	-.28	-.32	-.02	.44	.09	.03	-.15
87	.25	.05	-.18	-.29	.19	-.07	.22	-.08	-.26	.12
88	.07	.13	-.22	-.56	.37	.27	-.03	.27	-.02	-.04
89	-.19	-.11	.10	-.05	-.15	.14	.49	-.19	-.07	-.05
90	.05	.12	.05	-.39	.15	-.19	.44	.17	.02	-.19
91	.16	-.20	-.12	-.40	.22	.08	.53	.13	-.29	-.09
92	.16	.52	-.13	-.36	.17	-.20	.16	.31	.03	.11
93	.05	.13	-.26	-.26	.06	-.08	.63	.44	-.24	-.05
94	.04	.24	-.44	.51	.30	.06	.52	.37	-.24	-.18
95	.37	.56	-.45	-.02	.64	-.07	.32	.49	.29	-.46
96	.21	.02	-.14	-.44	.12	-.08	.42	.24	-.41	.06
97	.22	.42	-.33	-.59	.28	.20	-.09	.34	-.03	.14
98	.58	.42	-.43	-.06	.54	-.30	.03	.33	-.10	.16
99	.16	.13	-.37	-.03	-.02	-.17	.20	.10	-.27	-.06
100	.26	.22	-.29	-.03	.03	-.20	.20	-.03	-.23	.12

	41	42	43	44	45	46	47	48	49	50
51	.14	.18	-.06	.04	.11	-.04	-.11	-.42	.14	.05
52	.05	-.10	.13	.02	.01	.24	.20	.23	-.06	.06
53	-.24	.01	-.26	-.20	-.15	-.07	.28	.19	.08	.21
54	-.36	.15	-.14	.05	-.43	-.23	.02	-.33	-.13	-.07
55	-.18	-.02	.07	.11	.03	-.02	.06	-.05	.20	-.52
56	.05	.01	-.24	-.08	.16	.11	-.23	.17	-.15	.11
57	.23	-.08	-.11	.02	.00	-.03	-.26	-.49	.26	-.08
58	-.03	-.14	.08	.11	.17	.07	-.12	-.31	.55	-.04
59	-.03	.02	-.17	-.03	-.13	-.05	.37	.17	-.26	.13
60	-.20	.23	.16	.10	-.18	-.23	-.41	-.43	-.07	-.02
61	-.02	.07	.25	.30	.29	.03	-.16	-.48	.30	-.08
62	-.01	.21	.16	.17	.25	.08	-.11	-.01	-.07	-.27
63	.05	.34	.03	.03	.20	.11	-.14	.19	-.05	-.14
64	-.31	.03	.07	.12	-.08	.04	.06	.19	-.18	-.08
65	-.16	.23	-.07	-.03	-.09	-.18	.14	.02	-.23	.02
66	.04	.11	.08	.05	.20	.26	.25	.13	-.01	.05
67	-.16	-.25	-.07	.07	-.26	-.31	.13	-.22	-.20	.06
68	-.04	.23	.00	.12	.06	.05	.12	.10	-.15	.15
69	-.21	.04	-.06	.02	.08	-.10	-.02	-.09	.16	-.07
70	.12	.17	-.15	-.03	-.06	-.05	.09	.16	-.29	.16
71	-.01	.12	-.01	.15	-.03	.01	-.04	.00	.13	-.10
72	-.49	.25	.22	.14	.05	.00	-.12	-.24	.20	-.17
73	-.11	.01	-.26	.34	-.14	-.07	.15	.06	.06	-.03
74	.19	-.07	-.26	-.15	.00	-.02	.30	.26	-.13	.02
75	-.02	-.10	.06	-.10	-.05	-.08	-.16	-.06	.12	.00
76	-.14	-.15	.04	.02	-.18	-.11	-.08	.04	.01	.05
77	-.08	-.07	-.03	-.02	.03	.08	.09	.01	.08	.10
78	-.28	.24	-.07	.04	.08	.07	-.13	.02	-.27	.14
79	.03	.17	.18	.16	-.16	-.32	.20	.08	-.16	.17
80	.00	.37	.26	.22	-.02	-.08	-.22	-.02	-.14	-.21
81	.01	.24	.21	.22	-.15	-.23	-.01	-.03	-.07	-.10
82	-.02	.16	-.16	-.20	-.11	-.03	-.12	.13	.04	-.11
83	-.27	.16	-.08	-.16	.05	.04	.09	-.25	.37	-.16
84	-.08	.40	.04	.17	-.14	-.23	-.30	-.07	-.10	-.07
85	-.24	.22	.06	.06	-.22	-.19	-.33	-.22	-.24	.03
86	-.33	.40	.00	.28	-.25	-.14	-.36	-.25	.09	-.33
87	-.11	.35	-.13	-.08	-.02	-.18	-.11	.08	-.18	-.01
88	-.25	.22	-.17	-.10	-.11	.11	-.28	-.13	-.21	.25
89	-.32	.47	-.36	.44	.03	-.08	-.18	.00	.09	.07
90	-.39	.35	-.03	.12	-.68	-.26	-.28	-.25	-.24	-.10
91	-.06	.39	.13	.30	-.03	.05	-.31	-.10	-.03	-.06
92	-.05	-.16	.01	-.09	.07	.11	.00	-.16	-.30	-.26
93	-.07	.14	.06	.12	-.30	-.34	-.47	-.32	-.02	-.35
94	-.22	.35	.23	.28	-.15	-.32	-.65	-.20	-.17	-.41
95	-.55	-.05	.01	-.03	-.12	-.09	-.31	-.42	-.39	-.03
96	.19	.29	.18	-.06	-.06	-.07	-.31	-.08	-.05	-.09
97	.11	-.18	.35	-.22	.14	.22	-.28	-.09	.18	-.28
98	.03	.22	.60	.49	.30	.06	-.09	.15	.02	.01
99	-.04	.62	-.03	.41	-.01	-.28	-.39	-.11	-.18	-.11
100	.41	.22	.13	-.03	.26	.25	-.12	-.10	.05	.01

	51	52	53	54	55	56	57	58	59	60
51	1.00	-.24	-.17	.23	.04	-.20	.05	.30	-.01	-.10
52	-.24	1.00	-.06	-.22	.00	.25	-.04	-.01	.03	-.25
53	-.17	-.06	1.00	.15	-.03	.19	.00	-.08	.02	.20
54	.23	-.22	.15	1.00	.06	-.30	.14	.06	.07	.35
55	.04	.00	-.03	.06	1.00	.12	.14	-.03	-.08	.12
56	-.20	.25	.19	-.30	.12	1.00	.22	-.15	-.01	.28
57	.05	-.04	.00	.14	.14	.22	1.00	.53	-.33	.59
58	.30	-.01	-.08	.06	-.03	-.15	.53	1.00	-.47	.09
59	-.01	.03	.02	.07	-.08	-.01	-.33	-.47	1.00	-.22
60	-.10	-.25	.20	.35	.12	.28	.59	.09	-.22	1.00
61	.18	-.02	-.19	.01	.20	-.14	.53	.54	-.35	.27
62	-.08	-.05	-.26	.23	.23	.00	.09	-.02	.03	.21
63	-.10	.04	-.06	-.22	.08	.17	.03	-.14	.26	.16
64	-.14	.01	.03	.23	.03	-.28	-.05	.10	.11	-.13
65	-.16	.09	.14	.18	.21	.09	.05	-.28	.00	.17
66	.00	.29	.22	-.03	.03	.05	.10	.02	.09	-.11
67	.11	.06	.08	.12	.20	.03	.22	.00	.33	.15
68	-.09	.05	.20	.24	-.15	.03	-.09	-.10	.14	.13
69	.09	.01	-.03	.12	.17	-.15	.10	-.06	-.12	-.02
70	.21	.15	.05	-.03	.00	.40	.03	-.17	.13	.08
71	.06	-.04	-.04	.01	.02	-.11	.15	.15	-.24	-.11
72	-.05	.08	-.05	.23	.24	-.10	.22	-.01	.06	.21
73	.09	.11	-.04	.50	.10	-.13	.20	.18	.04	.05
74	-.08	.07	.15	.16	.06	.09	-.04	-.19	.23	-.16
75	-.12	.05	.20	-.04	.04	.18	.24	.14	-.31	.17
76	.04	.26	.12	.05	.09	.17	.11	.16	-.09	.07
77	.05	.35	.24	-.11	.07	.01	.15	.17	.14	-.03
78	.12	.23	.13	.14	.14	.13	.21	.03	.09	.20
79	-.26	.19	.19	-.06	-.06	-.04	.08	-.12	.16	.13
80	-.06	-.08	-.19	.10	-.08	-.13	.20	-.01	.11	.29
81	-.12	-.12	.05	.25	.06	-.33	.09	.23	-.16	.24
82	.05	-.04	.25	.12	.18	.06	.23	.07	-.11	.24
83	.13	-.04	.03	.41	.39	.02	.46	.04	-.15	.27
84	.13	-.08	.26	.37	-.06	.20	.52	.17	-.18	.54
85	-.03	-.03	.23	.20	.21	.20	.47	.07	-.25	.54
86	-.02	-.38	-.06	.76	.16	-.06	.57	.21	-.39	.70
87	-.06	-.07	.30	.28	.03	.09	.41	-.13	-.08	.47
88	.02	-.29	.31	-.01	.09	.58	.58	-.01	-.10	.61
89	.04	-.17	.28	.56	.04	.30	.54	.36	-.44	.36
90	-.01	-.16	.04	.69	.06	-.26	.39	.08	-.09	.52
91	.01	-.13	-.07	.47	-.11	.05	.48	.06	-.27	.56
92	-.52	-.03	.27	.19	.30	.48	.64	.03	.03	.59
93	.09	-.56	.12	.36	.18	.20	.56	.22	-.44	.68
94	-.06	-.32	.15	.22	.18	.22	.40	.10	-.37	.69
95	-.55	.21	.25	.00	.33	.46	.75	-.10	-.08	.56
96	-.11	-.28	.01	.21	-.16	.11	.23	.00	-.37	.55
97	-.08	-.03	-.08	-.13	.13	.01	.45	.39	-.22	.38
98	-.48	.38	-.10	-.49	.00	.03	.16	.17	-.13	.13
99	.25	-.01	.00	.27	.12	.05	.07	-.06	-.06	.19
100	.02	.14	-.21	-.20	-.03	.17	-.02	-.13	.12	.08

	61	62	63	64	65	66	67	68	69	70
51	.18	-.08	-.10	-.14	-.16	.00	.11	-.09	.09	.21
52	-.02	-.05	.04	.01	.09	.29	.06	.05	.01	.15
53	-.19	-.26	-.06	.03	.14	.22	.08	.20	-.03	.05
54	.01	.23	-.22	.23	.18	-.03	.12	.24	.12	-.03
55	.20	.23	.08	.03	.21	.03	.20	-.15	.17	.00
56	-.14	.00	.17	-.28	.09	.05	.03	.03	-.15	.40
57	.53	.09	.03	-.05	.05	.10	.22	-.09	.10	.03
58	.54	-.02	-.14	.10	-.28	.02	.00	-.10	-.06	-.17
59	-.35	.03	.26	.11	.00	.09	.33	.14	-.12	.13
60	.27	.21	.16	-.13	.17	-.11	.15	.13	-.02	.08
61	1.00	.17	.05	.15	-.13	.14	.10	-.15	-.01	-.06
62	.17	1.00	.58	.24	-.08	-.07	.10	.05	.36	-.17
63	.05	.58	1.00	.21	-.13	.10	.10	.23	.27	-.12
64	.15	.24	.21	1.00	-.01	.21	.25	.31	.15	-.07
65	-.13	-.08	-.13	-.01	1.00	.13	.16	.06	.04	.44
66	.14	-.07	.10	.21	.13	1.00	.25	.45	-.08	.07
67	.10	.10	.10	.25	.16	.25	1.00	.14	.08	.37
68	-.15	.05	.23	.31	.06	.45	.14	1.00	-.01	.03
69	-.01	.36	.27	.15	.04	-.08	.08	-.01	1.00	-.21
70	-.06	-.17	-.12	-.07	.44	.07	.37	.03	-.21	1.00
71	.15	-.29	-.10	.08	.18	.45	-.10	.02	-.07	-.08
72	.21	.08	.20	.12	.05	-.02	-.11	.06	.30	-.21
73	.08	.26	.02	.06	.04	.19	.14	.11	.15	-.03
74	-.14	.01	-.10	.18	.13	.17	.07	.30	-.03	.19
75	.03	-.02	.09	.17	-.01	-.01	.05	-.06	.26	-.01
76	.08	.12	.23	.41	-.15	.22	.34	.18	.37	.08
77	.14	.10	.22	.41	-.11	.40	.38	.36	.12	-.09
78	.23	.29	.44	.42	.04	.32	.41	.14	.31	.20
79	.15	.08	.20	.21	.00	.25	.22	.21	.06	.05
80	.21	.29	.29	.16	.13	.26	.10	.06	-.07	.08
81	.27	.15	-.09	.10	.13	-.05	-.03	.01	-.14	-.08
82	-.05	-.04	.16	.18	.14	.13	.06	.25	-.03	.23
83	.28	.09	.00	.02	.63	.25	.26	-.05	.45	.35
84	.09	.09	.20	-.09	.06	.52	.05	.30	.11	.04
85	.25	-.02	-.13	.05	.30	.35	.28	.06	-.12	.20
86	.20	.43	.15	-.02	.15	.10	-.05	.48	.04	.02
87	-.03	.26	.42	.02	.20	.15	.00	.18	.52	.09
88	.02	-.20	-.04	-.19	.40	.36	.34	.14	-.20	.56
89	.20	.09	.14	.11	.20	.40	-.20	.56	.23	.31
90	-.12	.10	-.03	.17	.08	-.05	-.03	.49	.11	-.19
91	.20	.34	.20	.03	.12	.26	-.16	.45	.28	-.02
92	.13	.02	.06	.09	.29	.47	.33	.46	.01	.05
93	.14	.19	-.07	-.12	.13	-.04	.12	-.13	-.05	-.02
94	.26	.22	.07	.01	.13	.14	-.06	.10	-.02	-.13
95	.26	.08	.23	.09	.59	.43	.43	.13	.33	.03
96	.00	.28	.17	-.13	.14	.06	-.15	.25	.18	.01
97	.46	.12	.31	.14	-.33	.40	.09	.03	.15	-.34
98	.60	.03	.41	.14	-.04	.27	-.03	-.05	-.06	-.28
99	.07	.21	.24	-.14	.11	.00	-.03	.07	.15	.14
100	.22	.09	.32	-.19	-.03	.03	-.18	.07	.06	-.03

	71	72	73	74	75	76	77	78	79	80
51	.06	-.05	.09	-.08	-.12	.04	.05	.12	-.26	-.06
52	-.04	.08	.11	.07	.05	.26	.35	.23	.19	-.08
53	-.04	-.05	-.04	.15	.20	.12	.24	.13	.19	-.19
54	.01	.23	.50	.16	-.04	.05	-.11	.14	-.06	.10
55	.02	.24	.10	.06	.04	.09	.07	.14	-.06	-.08
56	-.11	-.10	-.13	.09	.18	.17	.01	.13	-.04	-.13
57	.15	.22	.20	-.04	.24	.11	.15	.21	.08	.20
58	.15	-.01	.18	-.19	.14	.16	.17	.03	-.12	-.01
59	-.24	.06	.04	.23	-.31	-.09	.14	.09	.16	.11
60	-.11	.21	.05	-.16	.17	.07	-.03	.20	.13	.29
61	.15	.21	.08	-.14	.03	.08	.14	.23	.15	.21
62	-.29	.08	.26	.01	-.02	.12	.10	.29	.08	.29
63	-.10	.20	.02	-.10	.09	.23	.22	.44	.20	.29
64	.08	.12	.06	.18	.17	.41	.41	.42	.21	.16
65	.18	.05	.04	.13	-.01	-.15	-.11	.04	.00	.13
66	.45	-.02	.19	.17	-.01	.22	.40	.32	.25	.26
67	-.10	-.11	.14	.07	.05	.34	.38	.41	.22	.10
68	.02	.06	.11	.30	-.06	.18	.36	.14	.21	.06
69	-.07	.30	.15	-.03	.26	.37	.12	.31	.06	-.07
70	-.08	-.21	-.03	.19	-.01	.08	-.09	.20	.05	.08
71	1.00	.11	.05	-.08	-.03	.10	-.07	.05	.13	.03
72	.11	1.00	-.01	-.12	.11	.05	-.01	.32	-.06	.04
73	.05	-.01	1.00	-.09	-.11	.15	-.01	.29	.05	.08
74	-.08	-.12	-.09	1.00	-.04	.02	.13	-.05	.33	-.08
75	-.03	.11	-.11	-.04	1.00	.51	.01	.25	.26	-.21
76	.10	.05	.15	.02	.51	1.00	.29	.55	.29	-.16
77	-.07	-.01	-.01	.13	.01	.29	1.00	.32	.14	.20
78	-.05	.32	.29	-.05	.25	.55	.32	1.00	.21	.18
79	-.13	-.06	.05	.33	.26	.29	.14	.21	1.00	.23
80	.03	.04	.08	-.08	-.21	-.16	.20	.18	.23	1.00
81	-.05	-.13	.06	-.01	-.23	-.19	.05	.01	.31	.39
82	-.06	-.09	.14	.21	.19	.20	.12	.30	.20	.13
83	.29	.27	.23	.16	.13	.08	.05	.35	.03	.26
84	.18	.07	.35	.21	.34	.29	.04	.39	.52	.51
85	.19	-.19	.11	.04	.05	.12	.10	.24	.30	.30
86	.12	.33	.54	.20	-.26	-.27	-.05	.09	.02	.54
87	.00	.15	.17	.26	.15	.15	.13	.44	.33	.48
88	.17	-.09	.13	-.12	-.14	-.07	-.04	.12	-.05	.40
89	.47	.18	.51	.36	.06	.00	.06	.12	.27	.24
90	-.03	.15	.17	.06	-.41	-.28	.32	-.09	.23	.52
91	.08	.18	.57	.05	-.08	.09	-.01	.26	.08	.49
92	.01	.08	.05	.25	.26	.08	.06	.07	.28	.21
93	.17	-.19	.10	-.06	.48	.00	-.24	-.08	.10	.37
94	.25	.10	-.04	-.10	.16	.23	.10	.14	.15	.50
95	-.03	.39	.08	-.08	.69	.27	.38	.44	.34	.48
96	.01	-.34	-.04	-.01	.10	-.02	-.15	-.17	.29	.40
97	.09	.12	-.09	-.27	.33	.46	.24	.24	.15	.44
98	-.29	.27	-.06	-.39	.41	.03	.05	.26	.39	.39
99	-.01	.13	.18	.03	-.13	-.26	-.10	.16	-.07	.20
100	-.17	.11	-.25	.16	.14	-.10	-.08	.00	.09	-.01

	81	82	83	84	85	86	87	88	89	90
51	-.12	.05	.13	.13	-.03	-.02	-.06	.02	.04	-.01
52	-.12	-.04	-.04	-.08	-.03	-.38	-.07	-.29	-.17	-.16
53	.05	.25	.03	.26	.23	-.06	.30	.31	.28	.04
54	.25	.12	.41	.37	.20	.76	.28	-.01	.56	.69
55	.06	.18	.39	-.06	.21	.16	.03	.09	.04	.06
56	-.33	.06	.02	.20	.20	-.06	.09	.58	.30	-.26
57	.09	.23	.46	.52	.47	.57	.41	.58	.54	.39
58	.23	.07	.04	.17	.07	.21	-.13	-.01	.36	.08
59	-.16	-.11	-.15	-.18	-.25	-.39	-.08	-.10	-.44	-.09
60	.24	.24	.27	.54	.54	.70	.47	.61	.36	.52
61	.27	-.05	.28	.09	.25	.20	-.03	.02	.20	-.12
62	.15	-.04	.09	.09	-.02	.43	.26	-.20	.09	.10
63	-.09	.16	.00	.20	-.13	.15	.42	-.04	.14	-.03
64	.10	.18	.02	-.09	.05	-.02	.02	-.19	.11	.17
65	.13	.14	.63	.06	.30	.15	.20	.40	.20	.08
66	-.05	.13	.25	.52	.35	.10	.15	.36	.40	-.05
67	-.03	.06	.26	.05	.28	-.05	.00	.34	-.20	-.03
68	.01	.25	-.05	.30	.06	.48	.18	.14	.56	.49
69	-.14	-.03	.45	.11	-.12	.04	.52	-.20	.23	.11
70	-.08	.23	.35	.04	.20	.02	.09	.56	.31	-.19
71	-.05	-.06	.29	.18	.19	.12	.00	.17	.47	-.03
72	-.13	-.09	.27	.07	-.19	.33	.15	-.09	.18	.15
73	.06	.14	.23	.35	.11	.54	.17	.13	.51	.17
74	-.01	.21	.16	.21	.04	.20	.26	-.12	.36	.06
75	-.23	.19	.13	.34	.05	-.26	.15	-.14	.06	-.41
76	-.19	.20	.08	.29	.12	-.27	.15	-.07	.00	-.28
77	.05	.12	.05	.04	.10	-.05	.13	-.04	.06	.32
78	.01	.30	.35	.39	.24	.09	.44	.12	.12	-.09
79	.31	.20	.03	.52	.30	.02	.33	-.05	.27	.23
80	.39	.13	.26	.51	.30	.54	.48	.46	.24	.52
81	1.00	.15	.10	.34	.49	.42	.36	-.06	.18	.69
82	.15	1.00	.28	.56	.62	.46	.50	.42	.24	.36
83	.10	.28	1.00	.68	.46	.63	.70	.45	.61	.45
84	.34	.56	.68	1.00	.71	.76	.77	.59	.71	.65
85	.49	.62	.46	.71	1.00	.55	.52	.65	.34	.64
86	.42	.46	.63	.76	.55	1.00	.65	.69	.77	.74
87	.36	.50	.70	.77	.52	.65	1.00	.38	.66	.70
88	.06	.42	.45	.59	.65	.69	.38	1.00	.89	.59
89	.18	.24	.61	.71	.34	.77	.66	.89	1.00	.84
90	.69	.36	.45	.65	.64	.74	.70	.59	.84	1.00
91	.34	.57	.55	.80	.69	.84	.69	.67	.83	.69
92	-.06	.35	.36	.45	.41	.30	.29	.62	.44	.24
93	.23	.27	.51	.72	.68	.66	.40	.54	.53	.40
94	.46	.32	.32	.67	.70	.52	.41	.51	.48	.58
95	-.16	.09	.53	.45	.44	.18	.39	.76	.30	.28
96	.44	.31	.30	.72	.69	.64	.52	.73	.57	.76
97	-.12	.27	.09	.44	.27	.12	.30	.45	.02	.17
98	.08	.08	-.29	.10	.03	-.30	-.05	.11	-.13	-.29
99	.08	.14	.20	.33	.20	.46	.34	.17	.48	.33
100	-.11	-.10	.02	.09	-.05	-.17	-.11	-.16	-.20	-.35

	91	92	93	94	95	96	97	98	99	100
51	.01	-.52	.09	-.06	-.55	-.11	-.08	-.48	.25	.02
52	-.13	-.03	-.56	-.32	.21	-.28	-.03	.38	-.01	.14
53	-.07	.27	.12	.15	.25	.01	-.08	-.10	.00	-.21
54	.47	.19	.36	.22	.00	.21	-.13	-.49	.27	-.20
55	-.11	.30	.18	.18	.33	-.16	.13	.00	.12	-.03
56	.05	.48	.20	.22	.46	.11	.01	.03	.05	.17
57	.48	.64	.56	.40	.75	.23	.45	.16	.07	-.02
58	.06	.03	.22	.10	-.10	.00	.39	.17	-.06	-.13
59	-.27	.03	-.44	-.37	-.08	-.37	-.22	-.13	-.06	.12
60	.56	.59	.68	.69	.56	.55	.38	.13	.19	.08
61	.20	.13	.14	.26	.26	.00	.46	.60	.07	.22
62	.34	.02	.19	.22	.08	.28	.12	.03	.21	.09
63	.20	.06	-.07	.07	.23	.17	.31	.41	.24	.32
64	.03	.09	-.12	.01	.09	-.13	.14	.14	-.14	-.19
65	.12	.29	.13	.13	.59	.14	-.33	-.04	.11	-.03
66	.26	.47	-.04	.14	.43	.06	.40	.27	.00	.03
67	-.16	.33	.12	-.06	.43	-.15	.09	-.03	-.03	-.18
68	.45	.46	-.13	.10	.13	.25	.03	-.05	.07	.07
69	.28	.01	-.05	-.02	.33	.18	.15	-.06	.15	.06
70	-.02	.05	-.02	-.13	.03	.01	-.34	-.28	.14	-.03
71	.08	.01	.17	.25	-.03	.01	.09	-.29	-.01	-.17
72	.18	.08	-.19	.10	.39	-.34	.12	.27	.13	.11
73	.57	.05	.10	-.04	.08	-.04	-.09	-.06	.18	-.25
74	.05	.25	-.06	-.10	-.08	-.01	-.27	-.39	.03	.16
75	-.08	.26	.48	.16	.69	.10	.33	.41	-.13	.14
76	.09	.08	.00	.23	.27	-.02	.46	.03	-.26	-.10
77	-.01	.06	-.24	.10	.38	-.15	.24	.05	-.10	-.08
78	.26	.07	-.08	.14	.44	-.17	.24	.26	.16	.00
79	.08	.28	.10	.15	.34	.29	.15	.39	-.07	.09
80	.49	.21	.37	.50	.48	.40	.44	.39	.20	-.01
81	.34	-.06	.23	.46	-.16	.44	-.12	.08	.08	-.11
82	.57	.35	.27	.32	.09	.31	.27	.08	.14	-.10
83	.55	.36	.51	.32	.53	.30	.09	-.29	.20	.02
84	.80	.45	.72	.67	.45	.72	.44	.10	.33	.09
85	.69	.41	.68	.70	.44	.69	.27	.03	.20	-.05
86	.84	.30	.66	.52	.18	.64	.12	-.30	.46	-.17
87	.69	.29	.40	.41	.39	.52	.30	-.05	.34	-.11
88	.67	.62	.54	.51	.76	.73	.45	.11	.17	-.16
89	.83	.44	.53	.48	.30	.57	.02	-.13	.48	-.20
90	.69	.24	.40	.58	.28	.76	.17	-.29	.33	-.35
91	1.00	.39	.55	.64	.37	.76	.28	-.01	.37	.10
92	.39	1.00	.37	.38	.77	.43	.61	.35	-.07	.30
93	.55	.37	1.00	.65	.46	.70	.29	-.06	.26	-.06
94	.64	.38	.65	1.00	.50	.60	.49	.08	.14	-.17
95	.37	.77	.46	.50	1.00	.18	.57	.48	-.02	.19
96	.76	.43	.70	.60	.18	1.00	.40	.06	.18	.22
97	.28	.61	.29	.49	.57	.40	1.00	.57	-.33	.09
98	-.01	.35	-.06	.08	.48	.06	.57	1.00	-.02	.32
99	.37	-.07	.26	.14	-.02	.18	-.33	-.02	1.00	.25
100	.10	.30	-.06	-.17	.19	.22	.09	.32	.25	1.00

	101	102	103	104	105	106	107	108	109	110
51	.17	.12	.31	.07	-.09	.12	.04	-.05	-.12	.07
52	.07	-.07	-.08	.06	-.07	-.03	.24	.26	.25	.05
53	.02	.08	.10	.03	.40	.07	.24	-.02	.09	-.27
54	-.06	.23	-.09	.14	.24	-.12	.32	-.04	-.06	-.23
55	-.16	.05	-.24	-.06	.09	-.15	-.05	.03	-.11	.11
56	-.01	.14	.13	-.14	.00	.04	-.03	.12	.43	.15
57	.12	.12	-.07	-.24	.37	.06	.21	.08	.21	.40
58	.27	-.02	.19	-.08	.16	.10	.13	.41	.08	.33
59	-.06	.03	-.16	-.12	-.17	.06	-.21	-.28	-.12	-.29
60	.18	.36	.08	-.08	.31	.17	.20	.07	.10	.05
61	.29	.11	.02	-.04	.13	.19	.15	.28	.03	.62
62	-.02	.18	-.11	.14	-.22	-.11	-.05	.07	.08	.14
63	.10	.18	.15	.06	-.14	.02	-.22	-.08	.10	.06
64	.08	-.01	-.08	-.21	.15	-.05	-.14	-.07	-.28	-.14
65	-.17	.00	-.21	.05	.18	-.04	.01	-.32	-.13	-.20
66	-.08	-.12	-.08	-.22	.18	-.13	.14	-.13	.09	.11
67	.00	-.06	-.27	-.13	.27	-.10	.04	-.12	.03	-.10
68	-.21	-.21	.15	-.03	.12	-.19	.07	-.02	.05	-.05
69	-.13	.06	-.18	.10	.12	-.18	.10	-.01	.10	.26
70	.00	.01	-.03	.10	.17	-.03	-.02	-.29	-.09	-.18
71	.03	-.16	-.12	-.20	.09	-.14	-.04	-.23	-.02	.06
72	-.12	.04	-.15	-.06	.04	.16	.10	-.14	-.01	.17
73	-.15	.04	-.28	-.03	.22	-.22	-.03	-.32	-.12	-.06
74	-.09	-.06	.00	.01	.15	-.23	.15	.08	.09	-.08
75	-.01	.09	.14	-.18	.10	.09	.13	.15	.02	.02
76	-.02	-.07	-.03	-.31	.21	-.28	.17	.07	.21	-.14
77	.12	-.16	-.05	-.20	-.03	.01	.11	.11	.03	.07
78	-.07	.12	-.14	-.15	.23	-.17	-.05	-.38	-.01	-.04
79	-.09	.23	.00	-.11	.33	-.06	-.05	.09	-.25	-.01
80	.19	.26	-.05	-.05	.15	.21	-.13	-.20	-.14	.07
81	-.02	.17	-.06	.21	.18	-.06	-.08	.04	-.29	.01
82	-.09	.18	.41	.03	.63	-.06	-.02	-.09	-.07	-.17
83	-.13	.17	-.22	-.15	.40	-.24	-.02	-.21	-.14	.16
84	-.09	.45	.20	-.19	.61	-.12	.21	-.14	-.08	.01
85	.00	.39	.18	-.05	.58	-.09	.10	-.02	-.13	.04
86	-.11	.21	-.08	.01	.35	-.18	.13	-.25	-.06	.04
87	-.18	.33	.02	-.08	.41	-.08	-.06	-.21	.06	.06
88	.07	.07	-.06	-.43	.56	-.01	.00	-.43	-.04	.00
89	-.17	.13	.06	-.22	.45	-.23	-.22	-.17	-.27	.32
90	-.11	.22	-.16	-.15	.21	-.19	-.08	-.06	-.38	.02
91	-.06	.25	.10	-.06	.36	-.18	.06	-.22	-.05	.14
92	.06	.19	-.07	-.26	.67	.07	.50	.16	.42	.36
93	.18	.45	.17	-.11	.32	.05	.07	.05	-.07	-.02
94	.01	.26	.04	-.16	.43	-.01	.19	-.12	-.10	-.02
95	-.09	.06	-.41	-.64	.28	.12	.30	-.29	.10	.31
96	.07	.28	.26	.21	.27	-.15	.17	.17	.06	.10
97	.15	-.02	.03	-.41	.31	.03	.46	.19	.31	.21
98	.25	.25	.04	-.21	.25	.51	-.09	.31	-.30	.48
99	.26	.55	.29	.45	.26	.27	-.11	-.02	-.22	.23
100	.41	.29	.25	.33	-.18	.15	.33	.36	.29	.41

	111	112	113	114	115	116	117	118	119	120
51	-.19	.04	.27	.28	.00	-.06	.11	-.04	-.27	-.02
52	.36	.28	.01	.00	.42	-.26	-.19	.16	.09	.03
53	-.17	.15	.16	.27	-.06	.07	.03	-.11	.10	-.06
54	-.23	.01	.04	.13	-.08	.26	.11	.01	.06	-.19
55	-.05	-.11	-.03	-.03	-.05	-.15	.04	.17	-.10	.19
56	-.07	-.10	.06	-.30	.02	.29	.16	.06	-.10	-.02
57	.12	-.03	.19	-.01	-.14	.34	-.20	.21	-.19	-.11
58	.12	.09	.36	.26	.08	-.01	-.10	-.08	-.10	-.18
59	-.18	-.11	-.24	-.13	-.09	-.25	-.16	.13	-.05	-.08
60	-.15	.06	.16	-.24	-.42	.53	.12	.14	-.10	.22
61	.14	.15	.29	.04	.07	.25	.12	.12	-.05	.01
62	.03	-.08	.20	-.02	-.01	.06	.15	-.02	.23	.15
63	.14	.13	.10	-.35	-.06	-.02	.03	.07	.03	.07
64	.03	-.04	-.05	.11	-.02	-.18	-.03	-.08	.49	.17
65	.08	-.05	-.06	-.14	-.03	.04	.10	.18	-.01	.17
66	.22	-.10	.13	.22	.21	.15	-.12	-.25	.33	-.11
67	-.22	-.16	-.01	.24	-.05	-.23	-.22	-.20	.12	.18
68	.19	-.06	.02	-.07	-.01	.33	.18	-.16	.23	-.15
69	.08	-.07	-.06	.05	-.12	-.04	-.01	.01	.14	.13
70	-.09	-.12	.01	.04	-.04	-.06	.18	.09	-.38	.02
71	.16	-.11	-.06	-.02	.04	.11	-.05	-.07	-.10	-.27
72	.02	.07	-.41	-.18	.12	-.03	-.13	.43	-.12	.10
73	.12	-.04	.11	.20	-.03	.17	.03	-.02	-.16	-.15
74	.04	-.18	-.15	-.12	-.01	.12	.08	-.06	.17	-.16
75	.09	-.04	-.06	-.10	-.05	.10	-.19	.14	.42	.40
76	.02	-.02	-.05	.03	-.17	-.10	-.25	-.01	.38	.11
77	.06	.11	.14	.31	.18	-.14	-.21	-.06	.31	.11
78	-.09	.05	-.11	.02	.11	-.07	-.02	.19	.16	.10
79	.19	-.10	.18	-.21	-.08	.11	-.06	-.03	.25	.26
80	.04	-.06	.12	-.11	-.05	.07	.02	-.14	-.01	.22
81	.11	.09	.28	-.02	.03	.14	.25	-.03	-.07	.01
82	.21	.10	.20	.10	-.03	.14	.18	.09	-.20	-.01
83	-.10	-.28	-.13	.01	-.27	.25	.12	.24	-.23	-.09
84	.06	-.24	.18	-.32	-.37	.65	.02	-.33	.12	-.13
85	.03	-.09	.27	-.08	-.18	.45	.21	-.08	.05	.09
86	-.21	-.34	-.07	-.27	-.41	.67	.20	-.15	-.32	-.33
87	.09	-.22	.08	-.40	-.42	.40	.16	-.22	-.21	-.09
88	-.06	-.40	.10	-.12	-.61	.47	-.11	-.10	-.67	.05
89	.05	-.59	.28	-.34	-.37	.72	.24	-.20	-.40	-.48
90	-.11	-.36	.18	-.19	-.44	.43	.15	-.13	-.48	-.09
91	.08	-.14	.08	-.25	-.36	.78	.37	-.05	-.28	-.18
92	.44	-.07	.19	-.11	-.47	.59	-.04	-.14	.20	.10
93	-.28	-.25	.29	-.19	-.50	.57	.20	-.42	.00	.39
94	-.01	.02	.30	-.05	-.41	.43	.06	-.11	.33	.16
95	.14	-.22	-.17	-.21	-.50	.31	-.59	.44	.55	.65
96	.23	-.10	.35	-.32	-.34	.67	.33	-.35	.05	.10
97	.37	.08	.18	.03	-.29	.12	-.42	-.40	.32	.13
98	.51	.21	.27	-.12	.17	-.03	-.13	.06	.14	.41
99	-.21	.08	.21	-.12	.05	.12	.41	.10	-.20	-.03
100	.23	.34	.00	-.39	.03	.31	.24	.30	.07	.11

	121	122	123	124	125	126	127	128	129	130
51	-.32	-.10	.24	-.38	-.06	.03	.10	-.04	-.28	-.04
52	-.01	-.01	-.09	-.02	-.66	.17	-.29	.38	.35	-.13
53	.00	-.18	-.27	.01	.07	.26	.07	-.16	-.01	-.29
54	-.13	-.21	-.22	-.49	.09	-.04	.25	-.40	.02	-.16
55	-.08	.13	.03	-.01	.00	-.08	.02	.11	.19	-.11
56	.06	-.02	-.02	.17	-.23	-.07	.24	.01	.04	-.03
57	.04	-.18	-.05	-.04	-.04	-.04	-.05	-.13	.26	-.33
58	.25	-.16	.17	.24	.07	.08	-.28	.17	-.01	-.04
59	-.29	-.01	-.25	-.25	-.22	-.23	.23	-.10	.05	-.05
60	.08	.01	-.06	.18	.12	-.16	.20	-.22	.15	-.11
61	.17	.00	.07	.18	.10	-.03	-.17	-.02	.12	-.06
62	.20	.27	-.15	-.33	.08	-.47	-.05	.10	.13	.14
63	.02	.14	-.27	-.14	.10	-.33	.07	.07	.06	-.03
64	.24	.20	-.28	-.06	.34	.02	-.16	.26	.28	-.09
65	-.21	.22	-.07	-.08	-.22	.11	.04	-.06	.22	-.06
66	-.12	-.28	-.21	-.21	-.09	.08	-.25	-.09	-.02	-.33
67	-.14	-.02	-.36	.01	-.31	-.09	.06	-.13	.19	-.26
68	-.01	-.16	-.19	-.14	.12	-.05	.02	-.10	-.08	-.20
69	.18	.02	-.24	-.36	-.22	-.24	-.20	-.04	.30	-.23
70	-.42	.02	.13	.11	-.21	.12	.31	-.06	-.05	-.04
71	-.10	-.34	-.02	-.25	.32	.15	.08	-.24	-.13	-.28
72	.01	-.11	.01	-.17	-.13	-.09	.02	.01	.46	-.48
73	-.19	-.30	-.11	-.39	-.03	-.16	.17	-.37	-.18	-.18
74	-.18	.00	-.02	-.32	.21	.02	.12	-.07	-.03	.10
75	.26	.26	-.18	-.30	-.01	.13	-.24	.27	.32	.04
76	.19	-.14	-.51	-.04	-.29	.10	-.12	.06	.21	-.27
77	.22	.04	-.27	-.05	-.28	.01	-.31	.29	.28	-.23
78	.13	-.04	-.50	-.34	-.15	-.10	-.04	-.03	.25	-.34
79	.06	.14	-.28	-.08	.16	.01	-.19	.04	.26	.07
80	-.06	.15	.07	.26	-.05	-.12	-.06	-.02	.00	.12
81	.22	.15	.07	.19	.25	.00	-.20	.01	.01	.31
82	-.35	.04	-.15	.01	-.15	.31	-.04	-.05	-.16	.06
83	-.21	-.16	-.06	-.18	.10	-.25	-.03	-.35	.20	-.38
84	-.21	-.37	-.13	-.49	.11	-.08	.06	-.37	-.04	-.34
85	-.17	.00	-.18	.07	-.02	.14	-.10	-.12	.03	.02
86	-.43	-.42	.17	-.38	.72	-.32	.48	-.54	-.12	-.36
87	-.08	-.10	-.29	-.44	.27	-.36	.09	-.26	.13	-.32
88	-.26	-.26	.07	.74	-.28	-.03	.32	-.26	.04	-.42
89	.05	-.58	.07	-.53	.82	-.31	.46	-.48	-.01	-.65
90	-.02	-.20	.03	-.23	.57	-.35	.11	-.14	.20	-.44
91	-.15	-.22	.06	-.21	.13	-.23	-.03	-.39	-.17	-.08
92	.20	-.04	-.18	.39	-.53	-.11	-.22	-.18	.24	-.21
93	-.08	.15	.14	-.09	.56	-.09	.18	-.23	-.18	.24
94	.20	-.12	-.03	.05	-.18	.06	.05	-.22	-.02	-.21
95	.31	.22	-.54	-.01	-.91	-.10	-.32	.04	.68	-.66
96	.08	.04	.07	.19	.34	-.16	-.11	-.15	-.12	.24
97	.39	-.20	-.18	.44	-.56	-.09	-.41	.10	.25	-.37
98	.44	.34	-.05	.46	-.70	.11	-.58	.40	.37	.00
99	.36	-.01	.18	-.29	.09	-.10	.33	-.25	-.30	.05
100	-.02	.30	.12	.01	-.06	-.12	-.17	.16	-.03	.41

	131	132	133	134	135	136	137	138	139	140
51	-.14	.04	-.01	-.25	-.04	.31	-.17	-.31	.19	-.14
52	-.19	-.20	-.14	.14	-.21	-.23	-.11	.31	-.13	.09
53	.11	-.12	.17	.38	.19	-.13	.05	.06	.09	.15
54	-.08	.11	-.23	.03	.01	-.10	.04	-.15	.29	-.06
55	.34	-.15	-.09	-.05	.08	-.01	-.06	.01	-.04	-.13
56	.06	-.12	.30	-.08	-.02	-.19	.07	.11	-.23	.13
57	.06	.00	.27	.02	.05	-.13	.03	.16	.16	.15
58	-.24	.08	-.03	.00	-.07	.08	.11	.23	.23	.11
59	-.01	-.33	.02	-.15	.01	-.11	.13	.16	-.01	-.16
60	.13	.07	.30	-.08	.21	-.17	.10	.04	.04	.13
61	.17	.18	.29	.07	.12	-.05	.05	.01	.10	.22
62	.15	.21	.03	.09	.10	.03	-.02	.43	-.13	.05
63	.09	-.07	.15	.30	.10	-.17	.18	.44	-.17	-.11
64	-.05	-.01	-.15	.47	.07	.11	.08	.41	-.01	.20
65	.20	.04	-.09	.23	-.25	.23	-.36	.07	-.28	.25
66	-.20	-.04	-.29	.62	.21	-.21	.08	.48	.15	-.11
67	.14	-.19	.06	.06	.39	-.12	-.09	.28	.26	-.13
68	-.19	-.07	-.34	.58	.26	-.14	.25	.39	-.03	-.16
69	.34	-.01	.54	.32	-.25	.17	-.17	.09	-.25	-.32
70	.09	-.17	-.17	.17	-.07	.07	-.21	.07	-.12	.37
71	-.13	.19	-.23	.36	.06	-.09	-.12	-.20	.16	-.14
72	.15	.00	.66	.12	-.14	-.01	.15	-.02	-.20	.01
73	-.25	-.03	-.33	.46	-.07	-.17	.24	.41	.27	.10
74	.00	-.10	-.23	.19	.19	.07	-.24	.03	-.14	.22
75	.13	.21	.47	-.12	.03	.14	-.23	.02	-.14	.20
76	-.02	.26	-.08	.18	.22	.03	.02	.25	-.06	.06
77	-.14	-.12	-.09	.28	.11	-.12	.13	.56	-.10	-.22
78	.13	-.02	.28	.33	.12	-.02	.13	.35	.01	.23
79	.32	-.03	.16	.19	.47	-.20	-.18	.20	.08	.06
80	-.07	.16	-.28	.09	.00	-.17	.23	.36	.00	.07
81	.17	.21	-.36	.06	.19	-.09	.02	.10	.25	.02
82	.03	-.46	-.38	.32	.15	.06	.05	.09	-.03	.23
83	.23	-.05	.56	.36	-.02	.23	-.30	.06	.11	.17
84	-.11	-.07	.15	.28	.21	-.19	.12	.26	.27	-.05
85	.16	-.20	.10	.38	.26	-.05	-.05	.10	.27	.04
86	-.12	.18	.05	.40	.22	-.06	.35	.36	.17	.24
87	.35	-.05	.12	.23	.01	.05	.05	.23	.02	.04
88	-.04	-.16	-.06	.61	-.05	-.32	.20	.34	-.02	.18
89	-.10	.30	.04	.66	-.14	-.49	.28	.37	.05	***
90	.01	-.10	.23	.47	-.02	-.37	.18	.41	.25	-.55
91	-.06	-.02	.03	.56	.05	.02	.15	.32	.01	.03
92	.09	-.38	.27	.20	-.05	-.36	.06	.19	-.05	-.27
93	.04	.08	.26	-.15	.29	.08	-.27	-.10	.37	.09
94	.07	.00	.08	.05	.18	-.14	.12	-.04	-.08	.17
95	.19	-.10	.53	.07	-.19	-.29	.25	.40	-.28	***
96	.06	-.03	-.01	.34	.12	-.05	-.16	.13	-.01	-.42
97	-.14	-.47	-.06	.11	.01	-.18	.32	.36	-.14	-.36
98	.17	-.07	.38	.34	-.31	-.48	.38	.55	-.28	-.22
99	.05	.16	.26	.33	-.30	-.33	.18	-.13	-.01	.03
100	-.05	-.13	.52	-.08	-.21	-.05	-.11	-.03	.22	-.22

	1	2	3	4	5	6	7	8	9	10
101	.09	-.02	-.11	.13	.26	-.10	.07	.06	.20	.27
102	.37	.34	.09	.37	.35	.06	.29	.14	.27	.28
103	.38	.24	.00	.39	.22	.13	.13	.29	.47	.27
104	.04	.20	-.30	.36	.09	.05	.26	.19	.19	.14
105	.20	.10	-.07	.14	.02	.23	.18	.28	.11	.33
106	.12	-.02	.04	.22	.04	.01	.06	.02	.02	-.02
107	-.11	.04	-.25	-.02	-.01	.02	-.02	.02	-.05	.24
108	-.10	.42	-.11	-.08	.16	-.25	.08	.14	.08	.27
109	-.12	.16	.00	-.09	-.01	-.06	.05	.05	-.13	.21
110	-.03	.52	.21	.22	.25	.00	.21	.03	-.16	.08
111	.01	.23	.00	.06	.25	-.17	.18	.17	-.16	.22
112	.08	-.07	-.12	.21	.05	-.11	-.01	.05	.20	.20
113	.19	.28	-.10	.19	.26	-.11	.12	.25	.40	.39
114	-.34	.02	-.20	-.02	-.12	.00	-.14	.12	-.05	.17
115	-.09	.18	-.05	.12	-.04	-.11	.23	-.11	-.04	.06
116	.22	.25	.30	.17	.21	.48	.26	.16	.18	.36
117	.36	.29	.19	.37	.29	.18	.43	.23	.32	.32
118	.06	-.13	.11	.07	-.05	.17	-.08	-.23	-.22	-.30
119	-.38	-.06	-.01	-.34	-.11	-.02	.39	.16	-.07	.07
120	.05	.10	-.02	.01	-.02	-.19	.25	-.04	-.20	-.01
121	-.20	.12	.02	-.32	-.13	-.18	.04	-.26	-.26	-.18
122	.08	.19	.00	.05	.11	-.26	.25	.14	-.15	.00
123	-.04	.05	-.23	.22	-.04	-.20	-.08	-.04	.25	.01
124	-.26	-.19	-.10	-.50	.22	-.30	-.31	.09	-.10	-.09
125	-.06	.11	.04	.11	.03	.18	.33	-.01	.14	.05
126	.01	-.18	-.23	.01	.01	.08	.14	.15	.09	.22
127	.17	-.33	.01	.05	-.19	.22	-.06	-.05	.34	-.16
128	-.03	.05	-.21	-.11	-.09	-.58	-.04	-.24	-.05	-.09
129	.01	.04	-.04	-.21	-.34	-.28	-.15	-.42	-.44	-.30
130	-.04	.29	-.09	.08	.37	-.08	.33	.16	.14	.30
131	.17	.28	.23	.11	.10	.15	.23	.03	-.51	-.05
132	-.08	.11	-.24	-.03	.07	.18	.30	-.04	.04	-.04
133	.28	.40	.06	.30	-.52	-.09	-.17	-.79	-.21	-.48
134	.14	-.12	.24	.00	.06	.20	.24	.01	.10	.26
135	-.13	.15	.06	.05	.09	.10	.23	.25	.01	.38
136	.06	.17	-.03	.14	-.08	-.14	.07	-.16	.03	-.10
137	-.24	-.37	.27	-.23	.07	.18	-.23	.19	.15	-.20
138	-.23	-.21	.04	-.46	.01	-.38	-.06	-.25	.02	.10
139	-.09	.20	-.18	.14	.17	.15	.04	.32	.08	.21
140	.03	-.27	.08	-.21	-.40	-.13	.16	-.14	.30	-.17

	11	12	13	14	15	16	17	18	19	20
101	.18	-.17	-.01	.21	.04	.18	-.23	.48	.04	.04
102	.46	.10	.03	.06	.23	.14	-.44	.49	-.19	.33
103	.17	-.07	-.17	-.06	.10	.08	-.38	.49	-.30	.27
104	.04	-.29	-.14	.12	-.04	.01	-.08	.11	-.51	.20
105	.09	.13	.24	-.09	.02	.13	-.14	.32	-.39	.22
106	.25	-.06	.12	.04	.21	-.02	-.19	.41	-.01	.27
107	-.06	-.36	.07	-.11	-.47	-.09	.23	.24	-.16	.14
108	.01	-.02	-.06	-.11	-.24	-.40	-.17	.55	-.03	-.08
109	-.27	-.58	-.07	-.22	-.29	-.24	.26	.15	.03	-.04
110	.18	-.01	.03	-.14	.16	-.45	-.33	.31	-.24	.11
111	-.01	-.11	.08	-.13	-.16	-.36	-.19	.34	-.15	-.10
112	-.01	-.37	.01	.15	-.14	.24	-.14	.28	-.10	.07
113	.19	-.15	-.15	.01	.06	.00	-.25	.20	-.02	.17
114	-.28	-.15	-.10	-.13	-.23	.10	.24	-.08	.00	-.09
115	-.07	-.38	.03	-.04	-.05	-.30	-.03	.04	-.27	-.17
116	.50	.01	.31	-.21	.15	-.12	-.13	.20	-.24	.34
117	.35	-.01	-.04	.16	.30	.04	-.22	.29	-.37	.22
118	.05	-.06	.37	.19	.10	-.05	-.32	.13	-.08	.22
119	-.04	-.10	.05	-.13	-.05	-.10	.12	-.08	-.03	-.08
120	-.08	-.16	.23	.13	.26	.05	-.22	.12	.21	.08
121	-.08	.00	-.05	.20	-.27	-.19	-.09	-.02	.07	-.22
122	-.01	-.22	.09	.32	.15	.02	-.35	.28	.06	.08
123	.15	-.05	.01	-.07	.14	-.03	-.04	.09	-.02	.10
124	-.30	-.28	.20	-.07	-.09	-.01	-.02	.37	-.12	-.12
125	.30	.20	-.10	.06	.16	.16	-.21	-.27	.04	-.25
126	-.07	-.22	.13	-.03	-.10	.02	.00	.17	-.17	-.13
127	.27	.11	.03	.28	.05	.21	.27	-.41	.07	.24
128	-.18	-.20	-.03	.20	-.22	-.10	-.26	.16	.21	-.29
129	-.07	.17	.28	.18	-.30	-.14	-.09	.02	.21	-.13
130	.05	-.37	-.10	.13	.16	.04	-.32	.38	-.07	.00
131	.08	.20	.13	-.03	.15	-.37	-.16	.18	-.17	.15
132	.23	.07	.03	.19	.17	-.07	-.02	-.12	-.08	-.15
133	.14	.38	-.30	.08	-.22	.02	-.34	.34	-.03	.30
134	.34	.45	.23	-.18	.26	.18	-.20	-.07	-.46	-.23
135	.14	.11	.15	-.49	-.09	-.13	.13	-.01	.13	.02
136	-.10	-.05	-.25	-.02	-.02	.14	-.09	-.03	.20	-.11
137	.11	.06	.25	-.15	.13	.11	.11	-.15	-.20	.14
138	.11	.29	.38	.07	-.21	.04	.16	-.11	.11	-.41
139	.08	-.09	-.02	-.36	-.03	-.16	.03	-.04	.17	-.01
140	.10	-.50	.38	.16	.19	.03	-.10	-.08	.13	-.07

	21	22	23	24	25	26	27	28	29	30
101	-.40	-.11	.02	-.02	-.03	.05	-.19	.28	.06	.14
102	-.29	.11	.02	-.09	.14	.28	-.25	.20	.01	.31
103	-.16	.08	.23	-.20	-.10	.07	.00	.26	.17	.16
104	-.29	-.01	.30	-.15	-.22	.07	-.04	-.12	-.07	-.08
105	-.19	.26	.14	.01	.09	.24	.18	-.19	-.19	.15
106	-.22	-.03	-.04	.02	.18	-.09	-.22	.14	.06	.23
107	-.22	-.10	.26	.04	.10	-.03	.00	.13	.17	-.24
108	-.10	-.01	.18	.17	-.11	.23	-.34	.44	.14	.08
109	-.09	-.12	.36	-.01	.12	.07	-.11	-.14	.09	-.10
110	-.21	-.09	.00	.13	-.01	.35	-.49	.05	-.04	.19
111	.06	-.24	.21	-.12	-.16	.17	-.17	-.09	.04	-.07
112	-.32	-.16	.16	-.16	-.09	-.24	-.01	.07	-.06	.05
113	.08	-.09	.34	.17	.18	.03	-.08	.10	-.08	.18
114	.05	.03	.22	.14	-.08	-.46	.17	-.07	-.19	-.04
115	-.12	-.05	.25	.07	-.12	-.31	-.12	.08	-.05	.04
116	-.14	-.15	.06	.01	.28	.38	-.11	.11	.28	.03
117	-.20	-.12	.09	-.09	-.06	.33	-.27	.02	.11	.11
118	.04	.07	-.30	-.48	-.04	-.35	-.01	.09	.14	-.07
119	-.13	.01	.09	.22	-.01	-.04	.12	.01	-.07	.21
120	.04	.13	-.04	-.14	.03	.09	-.37	-.01	-.14	.36
121	-.01	.09	-.41	.12	-.19	.09	-.38	.12	-.13	.07
122	.00	.03	-.09	-.30	-.12	.11	-.45	.10	-.04	.24
123	-.04	-.02	-.11	-.03	-.26	.05	-.37	.06	.04	-.04
124	-.17	.29	-.38	-.29	-.14	.22	-.07	.10	-.04	.18
125	-.11	-.27	-.30	-.09	-.05	.38	-.01	.19	-.27	.04
126	-.25	-.11	.20	.02	-.14	-.25	.26	.01	.09	.03
127	-.17	-.14	-.03	.18	.20	-.19	.31	-.01	-.01	-.22
128	.15	-.02	-.15	-.14	-.36	-.13	-.37	.21	-.01	-.06
129	.31	.12	-.33	.03	.09	-.04	-.23	.14	.11	-.17
130	-.25	-.13	.20	-.24	-.23	.20	-.32	.09	.01	.25
131	.16	.05	-.09	-.06	.21	.33	-.17	-.04	.11	.11
132	-.24	-.28	-.08	.33	.19	.18	-.17	-.05	.04	.27
133	-.08	.51	-.73	-.13	-.08	.39	-.52	.17	-.08	-.25
134	.16	.20	.02	.14	.00	.17	.20	-.29	-.15	.21
135	.02	-.38	.13	.02	.19	.15	.22	.17	-.16	-.02
136	.20	-.07	-.07	-.38	-.09	.03	-.25	-.14	.23	-.11
137	-.33	-.02	-.19	.01	-.03	-.25	.30	-.13	-.23	.12
138	.23	.02	-.23	.14	-.09	.01	.02	-.04	-.02	-.20
139	-.01	-.31	.20	-.02	.08	.17	.15	-.03	-.13	.00
140	-.09	-.15	-.13	-.37	.22	-.42	.10	-.01	.15	-.04

	31	32	33	34	35	36	37	38	39	40
101	.23	.22	-.16	-.20	.05	-.32	.16	.20	-.18	-.01
102	.43	.24	-.32	-.14	.29	-.34	.39	.36	-.29	-.05
103	.27	.05	-.14	-.18	.02	-.13	.17	-.08	-.68	.17
104	-.09	-.18	.01	-.13	-.36	-.19	.07	-.08	-.06	.07
105	.13	-.03	-.17	-.32	.13	-.05	.04	.22	-.15	.01
106	.36	.25	-.29	.03	.18	-.42	.11	.22	-.22	-.07
107	-.12	-.02	-.07	-.22	-.23	.08	.08	.00	.14	-.09
108	.15	.43	-.03	-.02	-.15	-.31	.39	.02	-.28	.18
109	-.01	.16	.05	.00	-.17	-.07	-.10	-.11	-.02	-.21
110	.17	.39	-.44	.13	.08	-.30	.31	.14	-.14	-.10
111	.20	.04	-.02	-.25	.16	-.09	.02	-.22	-.15	.15
112	.02	-.14	-.07	-.31	.05	-.19	.09	.00	-.05	-.09
113	.17	.19	-.11	-.07	.14	-.38	.34	.27	-.38	.00
114	-.23	-.09	.09	.05	-.11	-.08	-.14	.13	.17	-.13
115	-.09	.04	.04	.25	.01	-.17	-.08	-.18	.02	-.21
116	.05	-.04	-.16	-.10	-.05	-.15	.54	.03	-.39	-.08
117	.13	-.01	-.12	.08	.04	-.20	.36	-.08	-.53	.23
118	.05	.16	-.09	.06	.18	.02	.10	-.06	.16	-.32
119	.00	.01	.04	-.11	.03	.05	.01	.25	.08	-.11
120	.54	.27	-.22	.02	.51	-.19	.02	.55	-.13	-.12
121	.00	.33	-.01	.06	.09	-.13	.21	.06	.08	-.04
122	.45	.31	-.07	.18	.36	-.33	.19	.24	-.19	-.01
123	.03	-.11	-.15	-.12	-.08	-.18	.13	-.04	-.16	.13
124	.15	.27	.02	-.17	.17	-.08	-.15	.28	.01	.12
125	-.43	-.19	.46	.22	-.55	-.13	.18	-.27	-.01	.11
126	-.04	-.27	-.07	-.33	.18	.13	-.10	-.07	-.16	.10
127	-.26	-.18	.04	.01	-.30	.19	-.09	-.14	.10	-.05
128	.30	.25	.12	.05	.32	-.06	-.02	-.02	.02	.10
129	.11	.27	.07	.12	.19	.11	.13	.09	.45	-.12
130	.43	.13	-.07	-.03	.28	-.54	.23	.09	-.54	.13
131	.14	.30	-.14	.18	.09	.07	.19	.09	.02	.21
132	-.16	-.06	.03	.02	-.13	-.30	.25	.11	.01	-.22
133	-.04	.05	-.45	.30	-.12	.05	.36	.21	.26	-.15
134	-.08	-.38	.39	.18	.16	.40	-.17	-.14	.19	-.01
135	-.29	-.04	.27	-.05	-.26	.01	.06	.03	.03	.11
136	-.10	-.28	.09	.18	.04	.28	-.03	-.13	-.08	.17
137	.03	.08	-.04	-.10	.08	-.03	-.17	.10	.19	-.14
138	.10	.11	.45	.25	.19	.05	-.04	-.06	.41	.09
139	-.19	-.15	.14	-.15	-.15	-.20	.12	.17	.16	-.04
140	.08	-.11	.00	.32	.14	.10	-.11	.06	-.07	-.22

	41	42	43	44	45	46	47	48	49	50
101	.24	.13	.21	.23	-.01	.12	-.16	-.12	.10	-.02
102	-.05	.53	.20	.34	-.09	-.28	-.30	-.12	-.19	-.02
103	.23	.25	.22	-.04	.24	-.03	-.30	-.09	.02	.08
104	.14	.23	-.09	.00	.03	-.02	-.08	.11	-.08	-.26
105	-.29	.11	-.05	.15	-.23	-.41	-.13	-.02	-.07	-.10
106	.09	.21	.42	.40	.25	-.14	-.13	-.25	-.03	.10
107	.06	-.16	-.05	-.17	-.09	.16	.02	-.14	.10	-.21
108	.21	-.13	.31	.04	.15	.08	.03	-.19	.36	.03
109	.23	-.41	-.19	-.36	.18	.36	-.03	-.07	.10	-.12
110	.11	.12	.07	.29	.51	.13	-.17	-.33	.29	-.01
111	.21	.06	.19	.01	.40	.32	.20	.18	.02	-.20
112	.13	.02	-.03	-.08	-.08	.17	-.09	-.01	.03	-.20
113	.27	.23	.03	.19	.16	-.03	-.05	-.14	.05	-.12
114	-.03	-.18	-.11	-.05	.03	.13	.21	-.02	.23	-.08
115	.12	-.01	-.07	-.06	.22	.17	.02	.10	-.01	.04
116	.23	.16	.04	.11	.13	.00	-.21	-.25	-.04	.28
117	.27	.45	.10	.32	.30	-.04	-.08	.10	-.11	.01
118	-.30	.16	.03	.00	.05	.13	-.07	-.28	.11	.23
119	-.17	-.13	.10	-.04	.08	.09	-.05	-.09	-.23	-.03
120	.17	.05	.39	.21	.00	-.11	-.10	-.11	-.25	-.05
121	.05	-.13	.20	.00	.21	.07	-.10	.05	.00	.05
122	.29	.14	.33	.10	.15	-.02	-.07	.04	.24	.04
123	.37	.07	.40	.28	.28	.13	-.03	.04	.18	.26
124	-.05	-.30	.31	-.16	-.07	.06	-.09	.14	.30	-.07
125	.20	.18	-.06	.02	-.05	.05	.03	.14	.11	.11
126	-.15	-.09	-.07	-.05	-.14	.00	.03	.04	.05	-.02
127	-.13	.10	-.47	.08	-.32	-.30	-.23	.01	-.24	.02
128	.09	.01	.33	-.05	.23	.37	.07	.19	.04	-.09
129	-.39	-.08	.21	-.09	-.01	.04	.12	-.14	-.07	.11
130	.63	.06	.22	.13	.09	-.03	-.09	.14	-.13	-.04
131	-.16	.06	.16	.09	.17	-.26	.16	-.15	-.07	.16
132	-.03	.24	.22	.35	.24	-.02	-.01	-.21	-.08	.23
133	-.35	.23	.41	.14	.16	-.24	-.29	-.33	.17	.17
134	-.24	.38	-.26	.36	.07	.24	.14	.50	.06	.18
135	.04	-.22	.13	-.01	-.11	-.07	.15	-.13	-.02	.03
136	.02	-.08	.11	-.25	.32	.19	.16	-.08	.20	.03
137	-.34	.03	-.14	.22	-.05	.03	-.24	.06	.04	.04
138	-.02	.11	.11	.12	.15	.30	.24	.47	.11	.19
139	-.19	-.19	-.07	.13	-.22	.06	.19	-.21	.06	.00
140	-.13	-.08	.03	.01	.33	.28	-.04	-.01	-.08	.08

	51	52	53	54	55	56	57	58	59	60
101	.17	.07	.02	-.06	-.16	-.01	.12	.27	-.06	.18
102	.12	-.07	.08	.23	.05	.14	.12	-.02	.03	.36
103	.31	-.08	.10	-.09	-.24	.13	-.07	.19	-.16	.08
104	.07	.06	.03	.14	-.06	-.14	-.24	-.08	-.12	-.08
105	-.09	-.07	.40	.24	.09	.00	.37	.16	-.17	.31
106	.12	-.03	.07	-.12	-.15	.04	.06	.10	.06	.17
107	.04	.24	.24	.32	-.05	-.03	.21	.13	-.21	.20
108	-.05	.26	-.02	-.04	.03	.12	.08	.41	-.28	.07
109	-.12	.25	.09	-.06	-.11	.43	.21	.08	-.12	.10
110	.07	.05	-.27	-.23	.11	.15	.40	.33	-.29	.05
111	-.19	.36	-.17	-.23	-.05	-.07	.12	.12	-.18	-.15
112	.04	.28	.15	.01	-.11	-.10	-.03	.09	-.11	.06
113	.27	.01	.16	.04	-.03	.06	.19	.36	-.24	.16
114	.28	.00	.27	.13	-.03	-.30	-.01	.26	-.13	-.24
115	.00	.42	-.06	-.08	-.05	.02	-.14	.08	-.09	-.42
116	-.06	-.26	.07	.26	-.15	.29	.34	-.01	-.25	.53
117	.11	-.19	.03	.11	.04	.16	-.20	-.10	-.16	.12
118	-.04	.16	-.11	.01	.17	.06	.21	-.08	.13	.14
119	-.27	.09	.10	.06	-.10	-.10	-.19	-.10	-.05	-.10
120	-.02	.03	-.06	-.19	.19	-.02	-.11	-.18	-.08	.22
121	-.32	-.01	.00	-.13	-.08	.06	.04	.25	-.29	.08
122	-.10	-.01	-.18	-.21	.13	-.02	-.18	-.16	-.01	.01
123	.24	-.09	-.27	-.22	.03	-.02	-.05	.17	-.25	-.06
124	-.38	-.02	.01	-.49	-.01	.17	-.04	.24	-.25	.18
125	-.06	-.66	.07	.09	.00	-.23	-.04	.07	-.22	.12
126	.03	.17	.26	-.04	-.08	-.07	-.04	.08	-.23	-.16
127	.10	-.29	.07	.25	.02	.24	-.05	-.28	.23	.20
128	-.04	.38	-.16	-.40	.11	.01	-.13	.17	.10	-.22
129	-.28	.35	-.01	.02	.19	.04	.26	-.01	.05	.15
130	.04	-.13	-.29	-.16	-.11	-.03	-.33	-.04	-.05	-.11
131	-.14	-.19	.11	-.08	.34	.06	.06	-.24	-.01	.13
132	.04	-.20	-.12	.11	-.15	-.12	.00	.08	-.33	.07
133	-.01	-.14	.17	-.23	-.09	.30	.27	-.03	.02	.30
134	-.25	.14	.38	.03	-.05	-.08	.02	.00	-.15	-.08
135	-.04	-.21	.19	.01	.08	-.02	.05	-.07	.01	.21
136	.31	-.23	-.13	-.10	-.01	-.19	-.13	.08	-.11	-.17
137	-.17	-.11	.05	.04	-.06	.07	.03	.11	.13	.10
138	.31	.31	.06	-.15	.01	.11	.16	.23	.16	.04
139	.19	-.13	.09	.29	-.04	-.23	.16	.23	-.01	.04
140	-.14	.09	.15	-.06	-.13	.13	.15	.11	-.16	.13

	61	62	63	64	65	66	67	68	69	70
101	.29	-.02	.10	.08	-.17	-.08	.00	-.21	-.13	.00
102	.11	.18	.18	-.01	.00	-.12	-.06	-.21	.06	.01
103	.02	-.11	.15	-.08	-.21	-.08	-.27	.15	-.18	-.03
104	-.04	.14	.06	-.21	.05	-.22	-.13	-.03	.10	.10
105	.13	-.22	-.14	.15	.18	.18	.27	.12	.12	.17
106	.19	-.11	.02	-.05	-.04	-.13	-.10	-.19	-.18	-.03
107	.15	-.05	-.22	-.14	.01	.14	.04	.07	.10	-.02
108	.28	.07	-.08	-.07	-.32	-.13	-.12	-.02	-.01	-.29
109	.03	.08	.10	-.28	-.13	.09	.03	.05	.10	-.09
110	.62	.14	.06	-.14	-.20	.11	-.10	-.05	.26	-.18
111	.14	.03	.14	.03	.08	.22	-.22	.19	.08	-.09
112	.15	-.08	.13	-.04	-.05	-.10	-.16	-.06	-.07	-.12
113	.29	.20	.10	-.05	-.06	.13	-.01	.02	-.06	.01
114	.04	-.02	-.35	.11	-.14	.22	.24	-.07	.05	.04
115	.07	-.01	-.06	-.02	-.03	.21	-.05	-.01	-.12	-.04
116	.25	.06	-.02	-.18	.04	.15	-.23	.33	-.04	-.06
117	.12	.15	.03	-.03	.10	-.12	-.22	.18	-.01	.18
118	.12	-.02	.07	-.08	.18	-.25	-.20	-.16	.01	.09
119	-.05	.23	.03	.49	-.01	.33	.12	.23	.14	-.38
120	.01	.15	.07	.17	.17	-.11	.18	-.15	.13	.02
121	.17	.20	.02	.24	-.21	-.12	-.14	-.01	.18	-.42
122	.00	.27	.14	.20	.22	-.28	-.02	-.16	.02	.02
123	.07	-.15	-.27	-.28	-.07	-.21	-.36	-.19	-.24	.13
124	.18	-.33	-.14	-.06	-.08	-.21	.01	-.14	-.36	.11
125	.10	.08	.10	.34	-.22	-.09	-.31	.12	-.22	-.21
126	-.03	-.47	-.33	.02	.11	.08	-.09	-.05	-.24	.12
127	-.17	-.05	.07	-.16	.04	-.25	.06	.02	-.20	.31
128	-.02	.10	.07	.26	-.06	-.09	-.13	-.10	-.04	-.06
129	.12	.13	.06	.28	.22	-.02	.19	-.08	.30	-.05
130	-.06	.14	-.03	-.09	-.06	-.33	-.26	-.20	-.23	-.04
131	.17	.15	.09	-.05	.20	-.20	.14	-.19	.34	.09
132	.18	.21	-.07	-.01	.04	-.04	-.19	-.07	-.01	-.17
133	.29	.03	.15	-.15	-.09	-.29	.06	-.34	.54	-.17
134	.07	.09	.30	.47	.23	.62	.06	.58	.32	.17
135	.12	.10	.10	.07	-.25	.21	.39	.26	-.25	-.07
136	-.05	.03	-.17	.11	.23	-.21	-.12	-.14	.17	.07
137	.05	-.02	.18	.08	-.36	.08	-.09	.25	-.17	-.21
138	.01	.43	.44	.41	.07	.48	.28	.39	.09	.07
139	.10	-.13	-.17	-.01	-.28	.15	.26	-.03	-.25	-.12
140	.22	.05	-.11	.20	.25	-.11	-.13	-.16	-.32	.37

	71	72	73	74	75	76	77	78	79	80
101	.03	-.12	-.15	-.09	-.01	-.02	.12	-.07	-.09	.19
102	-.16	.04	.04	-.06	.09	-.07	-.16	.12	.23	.26
103	-.12	-.15	-.28	.00	.14	-.03	-.05	-.14	.00	-.05
104	-.20	-.06	-.03	.01	-.18	-.31	-.20	-.15	-.11	-.05
105	.09	.04	.22	.15	.10	.21	-.03	.23	.33	.15
106	-.14	.16	-.22	-.23	.09	-.28	.01	-.17	-.06	.21
107	-.04	.10	-.03	.15	.13	.17	.11	-.05	-.05	-.13
108	-.23	-.14	-.32	.08	.15	.07	.11	-.38	.09	-.20
109	-.02	-.01	-.12	.09	.02	.21	.03	-.01	-.25	-.14
110	.06	.17	-.06	-.08	.02	-.14	.07	-.04	-.01	.07
111	.16	.02	-.12	.04	.09	.02	.06	-.09	.19	.04
112	-.11	.07	-.04	-.18	-.04	-.02	.11	.05	-.10	-.06
113	-.06	-.41	.11	-.15	-.06	-.05	.14	-.11	.18	.12
114	-.02	-.18	.20	-.12	-.10	.03	.31	.02	-.21	-.11
115	.04	.12	-.03	-.01	-.05	-.17	.18	.11	-.08	-.05
116	.11	-.03	.17	.12	.10	-.10	-.14	-.07	.11	.07
117	-.05	-.13	.03	.08	-.19	-.25	-.21	-.02	-.06	.02
118	-.07	.43	-.02	-.06	.14	-.01	-.06	.19	-.03	-.14
119	-.10	-.12	-.16	.17	.42	.38	.31	.16	.25	-.01
120	-.27	-.10	-.15	-.16	.40	.11	.11	.10	.26	.22
121	-.10	.01	-.19	-.18	.26	.19	.22	.13	.06	-.06
122	-.34	-.11	-.30	.00	.26	-.14	.04	-.04	.14	.15
123	-.02	.01	-.11	-.02	-.18	-.51	-.27	-.50	-.28	.07
124	-.25	-.17	-.39	-.32	-.30	-.04	-.05	-.34	-.08	.26
125	.32	-.13	-.03	.21	-.01	-.29	-.28	-.15	.16	-.05
126	.15	-.09	-.16	.02	.13	.10	.01	-.10	.01	-.12
127	.08	.02	.17	.12	-.24	-.12	-.31	-.04	-.19	-.06
128	-.24	.01	-.37	-.07	.27	.06	.29	-.03	.04	-.02
129	-.13	.46	-.18	-.03	.32	.21	.28	.25	.26	.00
130	-.28	-.48	-.18	.10	.04	-.27	-.23	-.34	.07	.12
131	-.13	.15	-.25	.00	.13	-.02	-.14	.13	.32	-.07
132	.19	.00	-.03	-.10	-.21	-.26	-.12	-.02	-.03	.16
133	-.23	.66	-.33	-.23	.47	-.08	-.09	.28	.16	-.28
134	.36	.12	.46	.19	-.12	.18	.28	.33	.19	.09
135	.06	-.14	.07	.19	.03	.22	.11	.12	.47	.00
136	-.09	-.01	-.17	.07	.14	.03	-.12	-.02	-.20	.17
137	-.12	.15	.24	-.24	-.23	.02	.13	.13	-.18	.23
138	-.20	-.02	.41	.03	.02	.25	.56	.35	.20	.36
139	.16	-.20	.27	-.14	-.14	-.06	-.10	.01	.08	.00
140	-.14	.01	.10	.22	.20	.06	-.22	.23	.06	.07

	81	82	83	84	85	86	87	88	89	90
101	-.02	-.09	-.13	-.09	.00	-.11	-.18	.07	-.17	-.11
102	.17	.18	.17	.45	.39	.21	.33	.07	.13	.22
103	-.06	.41	-.22	.20	.18	-.08	.02	-.06	.06	.16
104	.21	.03	-.15	-.19	-.05	.01	-.08	-.43	-.22	-.15
105	.18	.63	.40	.61	.58	.35	.41	.56	.45	.21
106	-.06	-.06	-.24	-.12	-.09	-.18	-.08	-.01	-.23	-.19
107	-.08	-.02	-.02	.21	.10	.13	-.06	.00	-.22	-.08
108	.04	-.09	-.21	-.14	-.02	-.25	-.21	-.43	-.17	-.06
109	-.29	-.07	-.14	-.08	-.13	-.06	.06	-.04	-.27	-.38
110	.01	-.17	.16	-.01	.04	.04	.06	.00	.32	.02
111	.11	.21	-.10	.06	.03	-.21	.09	-.06	.05	-.11
112	.09	.10	-.28	-.24	-.09	-.34	-.22	-.40	-.59	-.36
113	.28	.20	-.13	.18	.27	-.07	.08	.10	.28	.18
114	-.02	.10	.01	-.32	-.08	-.27	-.40	-.12	-.34	-.19
115	.03	-.03	-.27	-.37	-.18	-.41	-.42	-.61	-.37	-.44
116	.14	.14	.25	.65	.45	.67	.40	.47	.72	.43
117	.25	.18	.12	.02	.21	.20	.16	-.11	.24	.15
118	-.03	.09	.24	-.33	-.08	-.15	-.22	-.10	-.20	-.13
119	-.07	-.20	-.23	.12	.05	-.32	-.21	-.67	-.40	-.48
120	.01	-.01	-.09	-.13	.09	-.33	-.09	.05	-.48	-.09
121	.22	-.35	-.21	-.21	-.17	-.43	-.08	-.26	.05	-.02
122	.15	.04	-.16	-.37	.00	-.42	-.16	-.26	-.58	-.26
123	.07	-.15	-.06	-.13	-.18	.17	-.29	.07	.07	.03
124	.19	.01	-.18	-.49	.07	-.38	-.44	.74	-.53	-.23
125	.25	-.15	.10	.11	-.02	.72	.27	-.28	.82	.57
126	.00	.31	-.25	-.08	.14	-.32	-.36	-.03	-.31	-.35
127	-.20	-.04	-.03	.06	-.10	.48	.09	.32	.46	.11
128	.01	-.05	-.35	-.37	-.12	-.54	-.26	-.26	-.48	-.14
129	.01	-.16	.20	-.04	.03	-.12	.13	.04	-.01	.20
130	.31	.06	-.38	-.34	.02	-.36	-.32	-.42	-.65	-.44
131	.17	.03	.23	-.11	.16	-.12	.35	-.04	-.10	.01
132	.21	-.46	-.05	-.07	-.20	.18	-.05	-.16	.30	-.10
133	-.36	-.38	.56	.15	.10	.05	.12	-.06	.04	.23
134	.06	.32	.36	.28	.38	.40	.23	.61	.66	.47
135	.19	.15	-.02	.21	.26	.22	.01	-.05	-.14	-.02
136	-.09	.06	.23	-.19	-.05	-.06	.05	-.32	-.49	-.37
137	.02	.05	-.30	.12	-.05	.35	.05	.20	.28	.18
138	.10	.09	.06	.26	.10	.36	.23	.34	.37	.41
139	.25	-.03	.11	.27	.27	.17	.02	-.02	.05	.25
140	.02	.23	.17	-.05	.04	.24	.04	.18	***	***

	91	92	93	94	95	96	97	98	99	100
101	-.06	.06	.18	.01	-.09	.07	.15	.25	.26	.41
102	.25	.19	.45	.26	.06	.28	-.02	.25	.55	.29
103	.10	-.07	.17	.04	-.41	.26	.03	.04	.29	.25
104	-.06	-.26	-.11	-.16	-.64	.21	-.41	-.21	.45	.33
105	.36	.67	.32	.43	.28	.27	.31	.25	.26	-.18
106	-.18	.07	.05	-.01	.12	-.15	.03	.51	.27	.15
107	.06	.50	.07	.19	.30	.17	.46	-.09	-.11	.33
108	-.22	.16	.05	-.12	-.29	.17	.19	.31	-.02	.36
109	-.05	.42	-.07	-.10	.10	.06	.31	-.30	-.22	.29
110	.14	.36	-.02	-.02	.31	.10	.21	.48	.23	.41
111	.08	.44	-.28	-.01	.14	.23	.37	.51	-.21	.23
112	-.14	-.07	-.25	.02	-.22	-.10	.08	.21	.08	.34
113	.08	.19	.29	.30	-.17	.35	.18	.27	.21	.00
114	-.25	-.11	-.19	-.05	-.21	-.32	.03	-.12	-.12	-.39
115	-.36	-.47	-.50	-.41	-.50	-.34	-.29	.17	.05	.03
116	.78	.59	.57	.43	.31	.67	.12	-.03	.12	.31
117	.37	-.04	.20	.06	-.59	.33	-.42	-.13	.41	.24
118	-.05	-.14	-.42	-.11	.44	-.35	-.40	.06	.10	.30
119	-.28	.20	.00	.33	.55	.05	.32	.14	-.20	.07
120	-.18	.10	.39	.16	.65	.10	.13	.41	-.03	.11
121	-.15	.20	-.08	.20	.31	.08	.39	.44	-.36	-.02
122	-.22	-.04	.15	-.12	.22	.04	-.20	.34	-.01	.30
123	.06	-.18	.14	-.03	-.54	.07	-.18	-.05	.18	.12
124	-.21	.39	-.09	.05	-.01	.19	.44	.46	-.29	.01
125	.13	-.53	.56	-.18	-.91	.34	-.56	-.70	.09	-.06
126	-.23	-.11	-.09	.06	-.10	-.16	-.09	.11	-.10	-.12
127	-.03	-.22	.18	.05	-.32	-.11	-.41	-.58	.33	-.17
128	.39	-.18	-.23	-.22	.04	-.15	.10	.40	-.25	.16
129	.17	.24	-.18	-.02	.68	-.12	.25	.37	-.30	-.03
130	.08	-.21	.24	-.21	-.66	.24	-.37	.00	.05	.41
131	-.06	.09	.04	-.07	.19	.06	-.14	.17	.05	-.05
132	-.02	-.38	.08	.00	-.10	-.03	-.47	-.07	.16	-.13
133	.03	.27	.26	.08	.53	-.01	-.06	.38	.26	.52
134	.55	.20	-.15	.05	.07	.34	.11	.34	.33	-.08
135	.05	-.05	.29	.18	-.19	.12	.01	-.31	-.30	-.21
136	.02	-.36	.08	-.14	-.29	-.05	-.18	-.48	-.33	-.05
137	.15	.06	-.27	.12	.25	-.16	.32	.38	.18	-.11
138	.32	.19	-.10	-.04	.40	.13	.36	.55	-.13	-.03
139	.01	-.05	.37	-.08	-.28	-.01	-.14	-.28	-.01	-.22
140	.00	-.22	***	.17	***	-.42	***	***	.00	-.22

	101	102	103	104	105	106	107	108	109	110
101	1.00	.45	.26	.15	.04	.52	.26	.45	.12	.14
102	.45	1.00	.36	.16	.39	.50	-.03	.28	-.26	.17
103	.26	.36	1.00	.25	.24	.41	-.06	.34	.02	.00
104	.15	.16	.25	1.00	.13	.03	.40	.11	.23	.07
105	.04	.39	.24	.13	1.00	.12	.15	-.03	-.10	.02
106	.52	.50	.41	.03	.12	1.00	-.07	.22	-.16	.20
107	.26	-.03	-.06	.40	.15	-.07	1.00	.30	.62	.15
108	.45	.28	.34	.11	-.03	.22	.30	1.00	.24	.41
109	.12	-.26	.02	.23	-.10	-.16	.62	.24	1.00	.25
110	.14	.17	.00	.07	.02	.20	.15	.41	.25	1.00
111	-.08	-.15	.14	.28	.03	.00	.36	.18	.26	.31
112	.49	.08	.22	.58	.07	.24	.51	.22	.34	-.07
113	.35	.30	.39	.18	.17	.23	.05	.39	.05	.25
114	.09	-.09	-.13	.16	.25	.01	.29	.07	.03	.04
115	-.16	-.16	.02	.43	-.11	.09	.20	.04	.22	.26
116	-.03	.19	.24	-.12	.12	.02	.09	.10	.14	.32
117	.14	.39	.40	.31	.11	.15	-.16	.19	-.07	.28
118	.02	.15	-.12	.00	-.07	.21	-.03	.15	-.20	.07
119	-.01	-.11	-.14	-.05	-.13	-.06	.22	.13	.08	-.13
120	.27	.29	.00	-.17	-.07	.37	-.08	.05	-.20	-.01
121	.04	-.13	-.09	-.21	-.19	-.09	-.05	.29	.07	.21
122	.23	.01	.19	.05	-.20	.34	-.13	.18	-.16	.05
123	.28	.12	.31	.18	-.10	.44	-.08	.13	-.16	.11
124	.27	-.12	.10	.05	.35	.04	.03	.32	.19	.01
125	.00	.03	.02	-.18	-.33	-.35	-.48	-.16	-.52	-.10
126	.16	-.12	.18	.25	.31	.17	.29	.05	.00	-.21
127	.01	.04	-.06	-.02	.01	-.03	-.19	-.38	-.04	-.29
128	.26	.02	.16	.00	-.36	.20	.11	.35	.01	.05
129	-.17	.05	-.35	-.28	-.07	.09	.16	.08	-.06	.08
130	.37	.25	.39	.27	-.19	.23	-.14	.33	.02	.05
131	-.36	.23	-.13	.08	.13	.17	-.23	.02	-.20	.30
132	.16	.05	-.09	.01	-.22	.19	-.27	.06	-.19	.09
133	.08	.58	.09	.05	.08	.32	.16	.15	-.03	.55
134	-.22	.00	-.20	.11	.44	-.38	.03	-.47	-.28	.20
135	-.16	-.15	-.06	-.11	.05	-.23	.01	.00	.08	-.19
136	-.19	.18	.12	-.13	-.28	-.09	-.09	-.10	.01	-.10
137	.06	.02	-.04	-.07	.20	.17	-.17	.15	-.10	.04
138	.03	-.04	-.35	-.28	-.06	-.11	.00	.00	-.12	.03
139	.08	.20	-.09	.03	.16	-.08	-.07	.03	-.09	-.03
140	.10	***	.00	-.25	.00	.28	.00	.00	-.03	-.23

	111	112	113	114	115	116	117	118	119	120
101	-.08	.49	.35	.09	-.16	-.03	.14	.02	-.01	.27
102	-.15	.08	.33	-.09	-.16	.19	.39	.15	-.11	.29
103	.14	.22	.39	-.13	.02	.24	.40	-.12	-.14	.00
104	.28	.58	.18	.16	.43	-.12	.31	.00	-.05	-.17
105	.09	.07	.17	.25	-.11	.12	.11	-.07	-.13	-.07
106	.00	.24	.23	.01	.09	.02	.15	.21	-.06	.37
107	.36	.51	.05	.29	.20	.09	-.16	-.03	.22	-.08
108	.18	.22	.39	.07	.04	.10	.19	-.15	.13	.05
109	.26	.34	.05	.03	.22	.14	-.07	-.20	.08	-.20
110	.31	-.07	.25	.04	.26	.32	.28	.07	-.13	-.01
111	1.00	.27	.17	-.05	.37	.02	-.03	.10	.04	-.07
112	.27	1.00	.31	.22	.26	-.15	-.01	.15	.17	-.01
113	.17	.31	1.00	.36	.01	.14	.31	-.39	-.01	.18
114	-.05	.22	.36	1.00	.29	-.33	-.12	-.13	.21	-.02
115	.37	.26	.01	.29	1.00	-.19	.03	.17	.05	-.08
116	.02	-.15	.14	-.33	-.19	1.00	.51	-.10	-.15	-.07
117	-.03	-.01	.31	-.12	.03	.51	1.00	-.19	-.36	.08
118	.10	.15	-.39	-.13	.17	-.10	-.19	1.00	-.05	.04
119	.04	.17	-.01	.21	.05	-.15	-.36	-.05	1.00	.26
120	-.07	-.01	.18	-.02	-.08	-.07	.08	.04	.26	1.00
121	.09	-.07	.10	.02	-.01	.11	.03	-.18	.28	.18
122	.11	.01	.13	-.12	.10	-.01	.30	.18	.07	.80
123	.02	.06	.09	-.07	.03	.12	.33	-.10	-.46	.16
124	.04	.13	-.14	-.13	-.20	-.22	-.01	-.06	-.24	-.06
125	.46	-.45	-.12	-.32	-.44	.42	.29	-.19	-.16	-.08
126	.30	.51	.03	.28	.30	-.26	-.17	.16	.26	-.06
127	-.50	-.09	-.17	-.35	-.24	.10	.05	-.02	-.32	-.26
128	.37	.12	.11	.00	.28	-.36	-.10	.11	.15	.52
129	.25	-.12	-.25	-.16	.16	-.16	-.39	.41	.17	.30
130	.05	.13	.26	-.12	.00	.16	.49	-.13	-.06	.59
131	.09	-.41	-.14	-.34	-.02	.10	.22	.23	-.15	.17
132	.18	-.03	.12	.04	.00	.10	.15	-.06	.24	.07
133	-.30	-.18	-.25	-.13	-.16	.25	.20	.17	-.27	.25
134	.22	-.09	.07	.23	.22	.25	.25	-.09	.00	-.44
135	-.08	-.04	.01	.05	.04	.17	.01	-.21	.20	.04
136	-.06	-.19	-.12	-.04	-.15	-.03	.22	-.08	.03	.22
137	-.20	.06	-.22	.02	-.06	-.04	-.22	.18	.07	.42
138	.19	-.21	.03	.11	.05	.00	-.17	-.20	.06	.11
139	-.17	.04	.11	.19	-.06	.01	-.04	-.17	.01	.17
140	.12	-.17	.18	-.03	-.02	.26	.10	.27	.18	.09

	121	122	123	124	125	126	127	128	129	130
101	-.04	.23	.28	.27	.00	.16	.01	.26	-.17	.37
102	-.13	.31	.12	-.12	-.03	-.12	.04	.02	.05	.25
103	-.09	.19	.31	.10	.02	.18	-.06	.16	-.35	.39
104	-.21	.05	.18	.05	-.18	.25	-.02	.00	-.28	.27
105	-.19	-.20	-.10	.35	-.33	.31	.01	-.36	-.07	-.19
106	-.09	.34	.44	.04	-.35	.17	-.03	.20	.09	.23
107	-.05	-.13	-.08	.03	-.48	.29	-.19	.11	.16	-.14
108	.29	.18	.13	.32	-.16	.05	-.38	.35	.08	.33
109	.07	-.16	-.16	.19	-.52	.00	-.04	.01	-.06	.02
110	.21	.05	.11	-.01	-.10	-.21	-.29	.05	.08	.05
111	.09	.11	.02	.04	-.46	.30	-.50	.37	.25	.05
112	-.07	.01	.06	.13	-.45	.51	-.09	.12	-.12	.13
113	.10	.13	.09	-.14	.12	.03	-.17	.11	-.25	.26
114	.02	-.12	-.07	-.13	-.32	.28	-.35	.00	-.16	-.12
115	-.01	.10	.03	-.20	-.44	.30	-.24	.28	.16	.00
116	.11	-.01	.12	-.22	.42	-.26	.10	-.36	-.16	.16
117	.03	.30	.33	-.01	.29	-.17	.05	-.10	-.39	.49
118	-.18	.18	-.10	-.06	-.19	.16	-.02	.11	.41	-.13
119	.28	.07	-.46	-.24	-.16	.26	-.32	.15	.17	-.06
120	.18	.80	.16	-.06	-.08	-.06	-.26	.52	.30	.59
121	1.00	.25	-.11	.22	.23	-.31	-.41	.30	.32	.17
122	.25	1.00	.23	-.01	.10	-.13	-.32	.64	.27	.83
123	-.11	.23	1.00	.35	.18	-.01	.00	.23	-.20	.34
124	.22	-.01	.35	1.00	-.51	.25	-.17	.09	-.12	.22
125	.23	.10	.18	-.51	1.00	-.42	.27	-.12	-.29	.31
126	-.31	-.13	-.01	.25	-.42	1.00	-.14	.08	-.14	-.04
127	-.41	-.32	.00	-.17	.27	-.14	1.00	-.50	-.24	-.27
128	.30	.64	.23	.09	-.12	.08	-.50	1.00	.47	.37
129	.32	.27	-.20	-.12	-.29	-.14	-.24	.47	1.00	-.42
130	.17	.82	.34	.22	.31	-.04	-.27	.37	-.42	1.00
131	.05	.24	-.17	-.01	.02	-.16	-.08	-.08	.37	-.08
132	.27	.08	.18	-.19	.53	-.03	.02	-.08	-.09	.16
133	.45	.17	.21	-.29	-.01	-.51	-.16	.06	.40	-.31
134	-.21	-.36	-.20	-.08	.34	.00	-.18	-.18	.02	-.58
135	-.11	-.11	-.15	-.03	.44	.14	.09	-.17	-.05	-.08
136	-.01	.31	.19	-.13	.14	-.05	-.28	.27	.00	.22
137	-.03	-.46	-.18	.38	-.15	.01	.26	-.32	-.19	-.40
138	.24	.17	-.10	.09	-.08	-.34	-.32	.48	.51	-.16
139	-.24	-.31	.01	-.12	.30	.09	.06	-.22	-.16	-.12
140	-.01	.11	.14	-.15	.08	.02	.14	-.05	-.27	.15

	131	132	133	134	135	136	137	138	139	140
101	-.36	.16	.08	-.22	-.16	-.19	-.06	.03	.08	.10
102	.23	.05	.58	.00	-.15	-.18	.02	-.04	.20	-.07
103	-.13	-.09	.09	-.20	-.06	.12	-.04	-.35	-.09	-.01
104	-.08	.01	.05	.11	-.11	-.13	-.07	-.28	.03	-.25
105	.13	-.22	.08	.44	.05	-.28	.20	-.06	.16	.16
106	.17	.19	.32	-.38	-.23	-.09	.17	-.11	-.08	.28
107	-.23	-.27	.16	.03	.01	-.09	-.17	.00	-.02	-.17
108	.02	.06	.15	-.47	.00	-.10	-.15	.00	.03	-.37
109	-.20	-.19	-.03	-.28	.08	.01	-.10	-.12	-.09	-.03
110	.30	.09	.55	.20	-.19	-.10	.04	.03	-.09	-.23
111	.09	-.18	-.30	.22	-.08	-.06	-.20	.19	-.17	-.23
112	-.41	-.03	-.18	-.09	-.04	-.19	.06	-.21	.04	-.08
113	-.14	.12	-.25	.07	.01	-.12	-.22	.03	.11	-.08
114	-.34	.04	-.13	.23	.05	-.04	.02	.11	.19	-.13
115	-.02	.00	-.16	.22	.04	-.15	-.06	.05	-.06	-.01
116	.10	.10	.25	.25	.17	-.03	-.04	.00	.01	-.02
117	.22	.15	.20	.25	.01	.22	-.22	-.17	-.04	-.02
118	.23	-.06	.17	-.09	-.21	-.08	.18	-.20	-.17	.51
119	-.15	.24	-.27	.00	.20	.03	.07	.06	.01	.17
120	.17	.07	.25	-.44	.04	.22	-.42	.11	-.17	.24
121	.05	.27	.45	-.21	-.11	-.01	-.03	.24	-.24	-.22
122	.24	.08	.17	-.36	-.11	.31	-.46	.17	-.31	.14
123	-.17	.18	.21	-.20	-.15	.19	-.18	-.10	.01	.30
124	-.01	-.19	-.29	-.08	-.03	-.13	.38	.09	-.12	.03
125	.02	.53	-.01	.34	.44	.14	-.15	-.08	.30	.12
126	-.16	-.03	-.51	.00	.14	-.05	.01	-.34	.09	.15
127	-.09	.02	-.16	-.18	.09	-.28	.26	-.32	.06	.35
128	-.08	-.08	.06	-.18	-.17	.27	-.32	.48	-.22	.04
129	.37	-.09	.40	.02	-.05	.00	-.19	.51	-.16	.11
130	-.08	.16	-.31	-.58	-.08	.22	-.40	-.16	-.12	-.05
131	1.00	.05	.37	.00	.21	.13	-.17	-.15	-.05	-.06
132	.05	1.00	-.20	-.21	.10	-.03	-.03	-.15	.17	.06
133	.37	-.20	1.00	.11	-.25	.27	-.32	-.06	-.20	-.42
134	.00	-.21	.11	1.00	.02	-.22	.22	.75	.00	-.08
135	.21	.10	-.25	.02	1.00	.00	-.17	-.09	.61	-.03
136	.13	-.03	.27	-.22	.00	1.00	-.60	-.14	-.13	.51
137	-.17	-.03	-.32	.22	-.17	-.60	1.00	.45	.13	.01
138	-.15	-.15	-.06	.75	-.09	-.14	.45	1.00	-.16	-.11
139	-.05	.17	-.20	.00	.61	-.13	.13	-.16	1.00	-.13
140	.20	-.14	.21	.11	.07	.14	.23	-.23	-.07	1.00

END

FILMED

12-85

DTIC